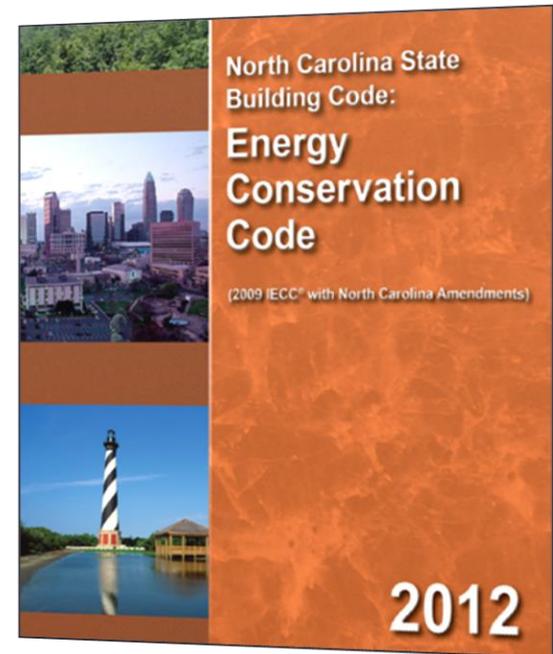


DOE Residential Energy Code Field Study

Team - Appalachian State University



Presented by:
Chuck Perry
Jeff Tiller



- **Current Status**

- 63 Observations required
- 35 Jurisdictions
- 96 Homes visited to date

- **Challenges**

- Build time outruns availability of permit data.
- Gaining approval to perform field tests.

Location	ASU Sample Plan	Sample	Random List
Asheville, Buncombe		1	yes
Beaufort County Unincorporated Area, Beaufort		1	no
Brunswick County Unincorporated Area, Brunswick		1	no
Burlington, Alamance		1	yes
Cabarrus County, Cabarrus		3	yes
Cary town, Wake		4	yes
Cumberland County Unincorporated Area, Cumberland		2	yes
Durham, Durham		3	yes
Fayetteville, Cumberland		1	yes
Forsyth County Unincorporated Area, Forsyth		3	yes
Fuquay-Varina town, Wake		2	yes
Gaston County Unincorporated Area, Gaston		1	yes
Greensboro, Guilford		2	yes
Guilford County Unincorporated Area, Guilford		1	yes
Haywood County Unincorporated Area, Haywood		1	yes
Henderson County, Henderson		1	yes
High Point, Guilford		1	yes
Iredell County, Iredell		2	yes
Jacksonville, Onslow		1	no
Leland town, Brunswick		1	no
Mecklenburg County, Mecklenburg		6	yes
Montgomery County, Montgomery		1	no
Morrisville town, Wake		1	yes
New Hanover County Unincorporated Area, New Hanover		2	no
Onslow County Unincorporated Area, Onslow		3	no
Pender County Unincorporated Area, Pender		1	no
Raleigh, Wake		3	yes
Southern Pines town, Moore		1	yes
Southport, Brunswick		1	no
Transylvania County, Transylvania		1	yes
Union County Unincorporated Area, Union		1	yes
Wake County Unincorporated Area, Wake		3	yes
Wake Forest town, Wake		3	yes
Waxhaw town, Union		2	no
Winston-Salem, Forsyth		1	no
Total		63	

Tally Sheet for Appalachian State University Energy Code Team

Tally Summary Sheet (number of observations by location)

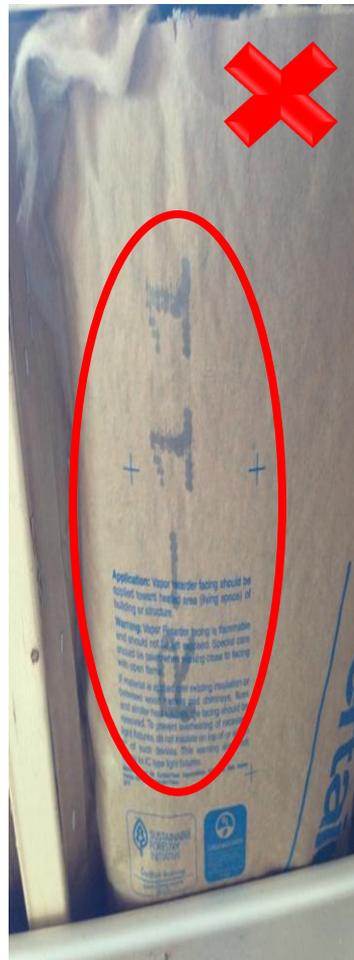
Location #				# to Sample	ACH50	Window SHGC	Window U	Wall R	Ceiling R	High Eff Lighting	Foundations			Duct Leakage
											Floor R	Basement R	Slab R	
1	Asheville, Buncombe			1		2	2	1		1	1			
2	Beaufort County Unincorporated Area, Beaufort			1										
3	Brunswick County Unincorporated Area, Brunswick			1										
4	Burlington, Alamance			1		2	2		2	1			3	
5	Cabarrus County, Cabarrus			3		9	9	3	3	3			10	
6	Cary town, Wake			4		1	1		2	1	1		2	
7	Cumberland County Unincorporated Area, Cumberland			2										
8	Durham, Durham			3		4	4	3	4	3	1		4	
9	Fayetteville, Cumberland			1										
10	Forsyth County Unincorporated Area, Forsyth			3		2	2	1	2	1	1		2	
11	Fuquay-Varina town, Wake			2		2	2	1	1		1			
12	Gaston County Unincorporated Area, Gaston			1		2	2	1	1				2	
13	Greensboro, Guilford			2		6	6	1	3	4	1		4	
14	Guilford County Unincorporated Area, Guilford			1										
15	Haywood County Unincorporated Area, Haywood			1		6	6		1	1	3			
16	Henderson County, Henderson			1		3	3	1	2	1	1		1	
17	High Point, Guilford			1										
18	Iredell County, Iredell			2		2	2		1	1	1			
19	Jacksonville, Onslow			1										
20	Leland town, Brunswick			1										
21	Mecklenburg County, Mecklenburg			6		19	19	9	9	6	1		14	
22	Montgomery County, Montgomery			1										
23	Morrisville town, Wake			1		2	2	2					2	
24	New Hanover County Unincorporated Area, New Hanover			2										
25	Onslow County Unincorporated Area, Onslow			3										
26	Pender County Unincorporated Area, Pender			1										
27	Raleigh, Wake			3	1	2	2	1	1	1	1		1	1
28	Southern Pines town, Moore			1										
29	Southport, Brunswick			1										
30	Transylvania County, Transylvania			1		1	1	1			2			
31	Union County Unincorporated Area, Union			1	1	3	3	1	2	3	1		1	1
32	Wake County Unincorporated Area, Wake			3		2	2		1	1			1	
33	Wake Forest town, Wake			3		5	5	3	4	1	2		3	
34	Waxhaw town, Union			2										
35	Winston-Salem, Forsyth			1										
Totals				63	2	75	75	29	39	29	18	0	50	2

“Moving the Needle” thru Education

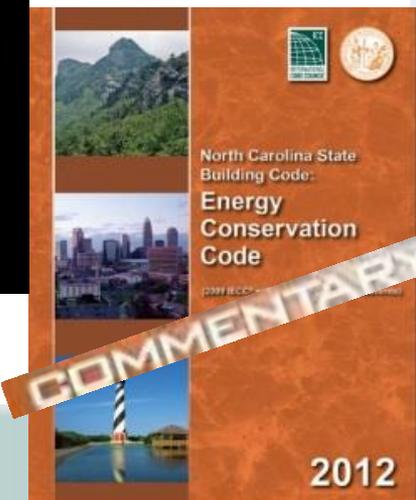
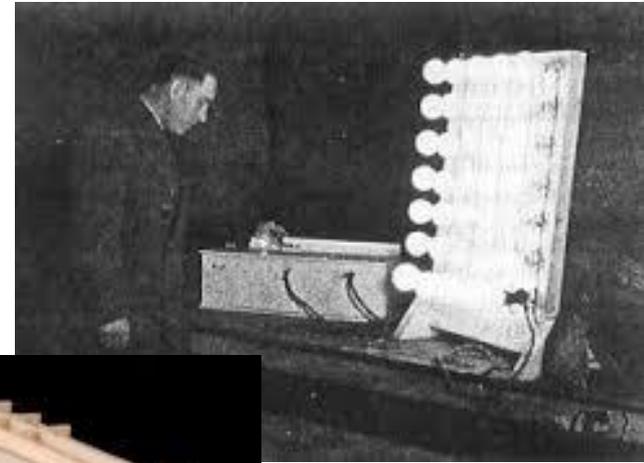
Project and Milestone Schedule

	Months After Project Initiation																																					
Tasks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
Task 1: Measure Current Code Compliance Rate	█	█	█	█	█	█																																
Task 2: Design/ Develop Educ. Programs	█	█	█	█	█	█	█	█	█	█	█	█	█																									
Task 3: Develop printed materials																																						
Task 4: Phase 1 Education Programs																																						
Task 5: Phase 2 Education Programs																																						
Task 6: Final Assesment of Code Compliance																																						
Task 7: Quarterly and Final Reports																																						
	Task 1: Pre-Period Compliance Study																																					
	M 1.1 Final assessment tool																																					
	M 1.2 Report on initial study																																					
	Task 2: Education, Training and Outreach																																					
Subtask 2.1: Develop Educational Materials																																						
Subtask 2.1: Develop Educational Materials																																						
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Subtask 2.1: Develop Educational Materials																																						

We have work to do!



- Flipping the Classroom – engage the learner
- Videos
- Models
- Photo's
- Software demos (RESCheck)
- Mobile App?
- Code Commentary



Questions?



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