

FLORIDA BUILDING COMMISSION

MEETING OF TAC CHAIRS

AUGUST 7, 2017 MEETING SUMMARY REPORT

MONDAY, AUGUST 7, 2017

MEETING SUMMARY AND OVERVIEW

At the Monday, August 7, 2017 meeting the TAC chairs considered and decided on whether the proposed projects met the three criteria for funding: 1.) definition of research and/or technical enrichment, 2.) urgency/immediacy, and needed for the 2020 FBC and/or legislative directive, and 3.) funding available (full or partial); and decided which met the requirements, and recommended them for approval by the Commission for funding based on the recommended priorities. The TAC Chairs' voted to recommend the Commission approve funding the research projects for fiscal year 2017 - 2018 as recommended by the TAC chairs on the basis that the proposed projects evaluated meet the three criteria for funding, and are approved for funding based on the funding levels recommended by the TAC chairs (\$398,983 total), and staff administering and overseeing the research, and negotiating scoping and contracting as appropriate.

Background and Supporting Documents

The agenda and relevant background and supporting documents are linked to each agenda item. The Agenda URL for the August 7, 2017 TAC Chairs meeting is as follows:

http://www.floridabuilding.org/fbc/commission/fbc_0817/TAC_Chairs/TAC_Chairpersons_Agenda.htm

AGENDA ITEM OUTCOMES

OPENING AND MEETING ATTENDANCE

The meeting was opened at 1:00 PM once a quorum was established, and the following TAC chairs participated:

Dick Browdy (FBC Chair), Hamid Bahadori (Fire), Steve Bassett (Mechanical), Jim Batts (Swimming Pool), Jay Carlson (Code Administration), Kevin Flanagan (Electrical), Charlie Frank (Special Occupancy), Jeff Gross (Accessibility), Fred Schilling (Plumbing), Jim Schock (Structural), Drew Smith (Energy), Brian Swope (Roofing).

Chairs Not In Attendance:

None.

Other Commissioners In Attendance:

Bob Boyer and Shane Gerwig.

DBPR STAFF PRESENT

Thomas Campbell, Jim Hammers, Chris Howell, Mo Madani, and Justin Vogel.

Meeting Facilitation and Reporting

The TAC Chairs meeting was facilitated by Jeff Blair from the FCRC Consensus center at Florida State University. Information at: <http://consensus.fsu.edu/>



CONSENSUS CENTER

AGENDA REVIEW

The TAC chairs voted unanimously, 12 - 0 in favor, to approve the agenda for the August 7, 2017 meeting as posted/presented. Following are the key agenda items approved for consideration:

- To Hear a Report Regarding Available Funding
- To Review Workplan/Timelines
- To Evaluate Proposed Research Projects
- To Prioritize and Provide Recommendations on Proposed Research Projects

The complete Agenda is included as “*Attachment 1*” of this report.

(See *Attachment 1—Agenda*)

APPROVAL OF AUGUST 15, 2016 MINUTES

The TAC chairs voted unanimously, 12 - 0 in favor, to approve the minutes for the August 15, 2016 meeting as posted/presented.

DEFINITIONS OF RESEARCH AND TECHNICAL ENRICHMENT

At the August 2013 meeting the TAC Chairs approved definitions to provide clarity and consistency regarding what is meant by “research” and “technical enrichment.” The definitions are used as key criteria regarding funding proposed research projects, Following are the approved definitions:

Research: An important and necessary endeavor that aimed at studying specific code related issue(s)/topics for the purpose of providing solutions to a specific problem or future code change(s) directed at improving the implementation and enforcement of the FBC. The issue to be researched must be fully understood (i.e., with clear purpose of doing the research/goals); clearly defined with specific scope of work/approach; and within budget.

Technical Enrichment: An important and necessary endeavor that is aimed at evaluating complex related code issue(s)/topics for the purpose of providing educational/clarification experience or alternative solutions directed at improving the implementation and enforcement of the FBC. Method of delivery for these matters is through workshop/TAC meetings with specific participation of expert(s) in subject area of concern.

AVAILABLE FUNDING SOURCES

Mo Madani reported that the Commission has approximately \$400,000 available for funding research projects for fiscal year 2017 - 2018. Mo noted that there is a request for from \$908,974 to \$951,974 in funding (+\$43,000 on #9-Roofing). In addition, Mo noted that of the \$400,000 available for funding, \$202,910 is needed for funding research projects required for development of the 2020 Florida Building Code, leaving available funding of approximately \$197,090. Mo noted that the total amount of funding required to fully fund the 16 remaining eligible projects is \$701,064 - \$744,064 representing a funding deficit of from \$503,974 - \$546,974.

RESEARCH WORKPLAN AND TIMELINES UPDATE

Mo Madani reviewed the updated timelines and workplan for evaluating and approving proposed research projects. The Workplan is included as “*Attachment 2*” of this report.

(See Attachment 2—Workplan/Timelines)

TAC CONSIDERATION AND EVALUATION OF PROPOSED RESEARCH PROJECTS

Jeff Blair explained that the following process would be used for evaluation of proposed research projects:

- Incomplete project proposals (7 projects)—projects with no funding estimate provided and/or no written proposal submitted—will not be considered for evaluation during the TAC Chairs’ meeting.
- Projects proposals (5 projects) required for the development of the 2020 FBC will be funded, and will not be included in the prioritization exercise.
- Remaining project proposals (16 projects) in turn, will be tested with a straw poll vote regarding whether they meet the criteria for funding, those that achieve a 75% threshold on the straw poll will then receive a formal vote by the TAC chairs. PIs whose projects don’t achieve a 75% straw pole level of support will be provided up to 3 minutes to address why their research project is consistent with the criteria for funding prior to the TAC Chairs’ formal vote regarding the same.
- PIs with projects that are deemed to meet the criteria for funding will have 15 minutes total to present their proposal.
- Once all research project proposals meeting the criteria are presented by the PIs and public comment received, TAC Chairs will participate in a ranking exercise to determine the relative priority of each proposed project based on the adopted criteria and using the ten-point ranking scale described in the Ranking Matrix. Once ranked the TAC chairs will discuss how much funding to provide for proposals (Full/Partial/None) based on the available funding level.

TAC chairs were then asked to review the three criteria and to decide whether each of the 16 funding eligible proposed research projects met the three criteria for funding: 1.) definition of research and/or technical enrichment; 2.) urgency/immediacy, and needed for the 2020 FBC, and/or legislative directive; and, 3.) funding available (full or partial).

The 16 proposed projects that provided a complete application including a cost estimate, were each considered regarding whether they met the criteria for funding. The TAC Chairs’ considered each of the projects in turn by conducting a straw poll regarding whether the project met the criteria for

funding, and if a 75% or greater ranking threshold was achieved then a formal vote was conducted. In instances where a less than 75% ranking threshold was achieved, the PI for the project was provided three minutes to explain why their project met the criteria, and subsequently a formal vote was conducted.

The following 5 projects were recommended to be fully funded and were determined to be required for the development of the 2020 Florida Building Code (\$202,910):

1. Study on impact of code issues on property insurance rates {Fire TAC P1} (Apfelbeck) [\$15,000]
2. Evaluation of Cost Impact and Benefit of 2018 Prescriptive Code Changes {Fire TAC P2} (UF) [\$79,960]
Additional Information added to the ongoing cost impact analysis project {Fire TAC P2} (Schock) [\$25,000 included in cost of the project listed above]
3. Workshop on Evaluation of the Cost Impact of Prescriptive Code Changes {Fire TAC P2} (UF) [\$39,950]
4. Comparison of the 6th Edition Florida Building Energy Code with IECC 2018 and ASHRAE 90.1-2016 {Fire TAC P2} (FSEC) [\$48,000]
5. A study to evaluate impact of code updates and the ISO, BCEGS and insurance premiums and a qualifier that would identify electrical requirements specifically {Electrical TAC P3} (Holland) [\$20,000]

MOTION—The TAC chairs' voted, 12 – 0 in favor, to approve the five projects recommended by staff to be required for development of the 2020 FBC at full funding (\$202,910).

The following 7 projects were not evaluated on the basis that the submittal (application) was incomplete and not eligible for consideration:

1. A study to determine specific changes in the code and a Committee to access the specific code sections with stakeholders to get more information to local jurisdictions {Mechanical TAC P1} (Crum) [**\$No Cost Provided**]
2. Expansion of the current UF project on disasters to include water intrusion requirements, flood provisions, and the CCL requirements {Structural TAC P1} (Schock) [**\$No Cost Provided**]
3. Cost/Benefit Analysis of the requirement of automatic receptacle control in ASHRAE 90.1 to see if it is producing energy savings {Electrical TAC P1} (Territo) [**\$No Cost Provided**]
4. A study to identify code modifications needed to enhance existing swimming pool electrical safety {Electrical TAC P2} (Holland) [**\$No Cost Provided**]
5. A research project on the impact of residential fire spread between buildings in a fire scenario {Fire P3} [**No Proposal Submitted**]
6. A study to make sure all local jurisdictions are using the same NEC requirements {Electrical P4} [**No Proposal Submitted**]
7. Florida Specific Accessibility Requirements for Guest Rooms {Accessibility TAC P1} (Eustace) [**\$No Cost Provided**]

The TAC chairs voted that the following 5 of the 16 eligible projects met the criteria and should be evaluated for funding (\$196,073):

1. Residential Air Leakage Testing and Mechanical Ventilation Verification {Energy TAC P1} (FSEC) [\$59,000]

2. Energy Impact of Dehumidifier Location {Energy TAC P4} (FSEC) [\$40,000]
3. A cost impact study completed on decking systems in reference to the roofing diaphragms and costs to the consumer {Roofing TAC P1} (FRSA) [\$113,000 - \$156,500]
4. Continuation of corrosion of roofing fasteners {Roofing TAC P2} (UF) [\$25,065]
5. Research project on Chapter 233 residential facilities requirements {Accessibility TAC P2} (Gross) [\$5,000]

Projects that were determined not to meet the criteria (11):

1. Create an Electronic Storage Protocol for Building Permits {Energy TAC P2} (FSEC) [\$54,999]
2. Residential Prescriptive and Performance Code Methodology for Crediting Smart Thermostats {Energy TAC P3} (FSEC) [\$20,000]
3. Improving Water Heating Efficiency in the Residential Performance Code {Energy TAC P5} (FSEC) [\$15,000]
4. Investigation of Exterior Duct Condensation Potential of Deeply Buried Cold Air Supply Ducts in Florida Vented Attics {Energy TAC P6} (FSEC) [\$82,000]
5. Air Leakage and Conductive Impacts of Central Air Deep Media Filter Boxes and Electronic Air Cleaner Boxes {Energy TAC P7} (FSEC) [\$29,000]
6. A study for building departments, contractors, owners, etc. to offer a resolution of outdated or expired permits to avoid time issues {Code Administration TAC P1} (Gerwig) [\$25,000]
7. A study on public restrooms below the “design flood” elevation {Special Occupancy TAC P1} (Martin) [\$150,000]
8. A research project to see if it is reasonable to have a seismic design in Florida {Structural TAC P2} (Schock) [\$18,000]
9. A study on how buildings are to be designed in the future and how the code could consider sea level rise and sea level rise parameters {Structural TAC P3} (Gascon) [\$45,000]
10. Establish Bed Height, Bed Frame and Scoping Recommendations for the Florida Specific Accessibility/Transient Housing Section of Code {Accessibility TAC P1} (Worrall) [\$5,000]
11. Research on the need for changing tables for adults with disabilities and what other states are doing or not to assist with this need {Accessibility TAC P3} (Schiffer) [\$15,000]

Following are the projects recommended for funding by the TAC chairs (\$398,983):

TAC CHAIRS RESEARCH PROJECT FUNDING RECOMMENDATIONS FOR FY 2017 - 2018			
	PROJECT	FUNDING	COMMENTS
1	Fire TAC P1 (code impacts on insurance rates)	\$15,000	Needed for 2020 Code
2	Fire TAC P2 (code cost impacts)	\$79,960	Needed for 2020 Code
3	Fire TAC P2 (evaluation of cost impacts)	\$39,950	Needed for 2020 Code
4	Fire TAC P2 (comparison of energy code)	\$48,000	Needed for 2020 Code
5	Electrical TAC P3 (code impacts ISO)	\$20,000	Needed for 2020 Code
TOTAL		\$202,910	

TAC CHAIRS RESEARCH PROJECT FUNDING RECOMMENDATIONS FOR FY 2017 - 2018			
	PROJECT	FUNDING	COMMENTS
1	Energy TAC P1 (air leakage)	\$47,790	Partial funding -19%
2	Energy TAC P4 (dehumidifier location)	\$32,400	Partial funding -19%

3	Roofing TAC P1 (roofing diaphragms)	\$111,833*	Partial funding -19% (\$91,530 + \$20,303)
—	Roofing TAC P2 (corrosion of fasteners)	\$20,303*	Added back to Roofing P1
4	Accessibility TAC P2 (residential facilities)	\$4,050	Partial funding -19%
TOTAL		\$196,073	

(See Attachment 3—Research Proposal Costs/Full List of Proposed Research Projects)

TAC Actions:

MOTION—The TAC chairs’ voted, 11 – 1* in favor, to recommend the Commission approve funding the research projects for fiscal year 2017 - 2018 as recommended by the TAC chairs on the basis that the proposed projects evaluated meet the three criteria for funding: 1.) definition of research and/or technical enrichment, 2.) urgency/immediacy, and needed for the 2020 FBC and/or legislative directive, and 3.) funding available (full or partial), and should be approved for funding based on the funding levels recommended by the TAC chairs (\$398,983), and staff administering and overseeing the research, and negotiating contracting and scoping as appropriate.

* Commissioner Bassett voted against the motion.

COMMITTEE OF TAC CHAIRS RECOMMENDATIONS FOR COMMISSION ACTION

MOTION—The TAC chairs’ voted, 11 - 1 in favor, to recommend the Commission approve funding the research projects for fiscal year 2017 - 2018 as recommended by the TAC chairs on the basis that the proposed projects evaluated meet the three criteria for funding: 1.) definition of research and/or technical enrichment, 2.) urgency/immediacy, and needed for the 2020 FBC and/or legislative directive, and 3.) funding available (full or partial), and should be approved for funding based on the funding levels recommended by the TAC chairs (\$398,983), and staff administering and overseeing the research, and negotiating contracting and scoping as appropriate.

TAC CHAIRS RESEARCH PROJECT FUNDING RECOMMENDATIONS FOR FY 2017 - 2018			
	PROJECT	FUNDING	COMMENTS
1	Fire TAC P1 (code impacts on insurance rates)	\$15,000	Needed for 2020 Code
2	Fire TAC P2 (code cost impacts)	\$79,960	Needed for 2020 Code
3	Fire TAC P2 (evaluation of cost impacts)	\$39,950	Needed for 2020 Code
4	Fire TAC P2 (comparison of energy code)	\$48,000	Needed for 2020 Code
5	Electrical TAC P3 (code impacts ISO)	\$20,000	Needed for 2020 Code
6	Energy TAC P1 (air leakage)	\$47,790	Partial funding -19%
7	Energy TAC P4 (dehumidifier location)	\$32,400	Partial funding -19%
8	Roofing TAC P1 (roofing diaphragms)	\$111,833	Partial funding -19% + P2 -19%
9	Accessibility TAC P2 (residential facilities)	\$4,050	Partial funding -19%
TOTAL		\$398,983	

ADJOURN

Commissioner Browdy, Commission Chair, thanked TAC chairs and the public for their attendance and participation, and adjourned the meeting at 3:16 PM on Monday, August 7, 2017.

ATTACHMENT 1
AUGUST 15, 2015 MEETING AGENDA

Agenda
Technical Advisory Chairpersons (TAC)
1:00 P.M. August 07, 2017
Embassy Suites
950 S. Ocean Drive
Deerfield Beach, Florida

- 1. Welcome and Opening Roll Call** **Chairman**
- 2. Review and Approval of Agenda and August 15, 2016 Minutes**

Technical Advisory Committees (TACS) of the Commission:

	<u>Chairperson</u>
Chairman/FBC	Dick Browdy
Accessibility	Jeffrey Gross
Code Administration	Jay Carlson
Structural	James Schock
Fire	Hamid Bahadori
Electrical	Kevin Flanagan
Energy	Drew Smith
Mechanical	Steve Bassett
Plumbing	Frederick Schilling
Roofing	Brian Swope
Special Occupancy	Charlie Frank
Swimming Pools	James Batts

Definitions for “Research” and “Technical Enrichment”

Research: An important and necessary endeavor that aimed at studying specific code related issue(s)/topics for the purpose of providing solutions to a specific problem or future code change(s) directed at improving the implementation and enforcement of the FBC. The issue to be researched must be fully understood (i.e. with clear purpose of doing the research/goals); clearly defined with specific scope of work/approach; and within budget.

Technical Enrichment: An important and necessary endeavor that is aimed at evaluating complex related code issue(s)/topics for the purpose of providing educational/clarification experience or alternative solutions directed at improving the implementation and enforcement of the FBC. Method of delivery for these matters is through workshop/TAC meetings with specific participation of expert(s) in subject area of concern.

3. Available Funding Sources

Mo Madani

4. Review research Workplan/Timeline

Mo Madani

5. TAC considers, evaluates and recommends list of research topics for consideration by the Commission.

Presentations of proposed research projects by proponents

Energy Technical Advisory Committee

- Priority 1: Residential Air Leakage Testing and Mechanical Ventilation Verification (FSEC/\$59,000)
- Priority 2: Create an Electronic Storage Protocol for Building Permits (FSEC/\$54,999)
- Priority 3: Residential Prescriptive and Performance Code Methodology for Crediting Smart Thermostats (FSEC/\$20,000)
- Priority 4: Energy Impact of Dehumidifier Location (FSEC/\$40,000)
- Priority 5: Improving Water Heating Efficiency in the Residential Performance Code (FSEC/\$15,000)
- Priority 6: Investigation of Exterior Duct Condensation Potential of Deeply Buried Cold Air Supply Ducts in Florida Vented Attics (FSEC/\$82,000)
- Priority 7: Air Leakage and Conductive Impacts of Central Air Deep Media Filter Boxes and Electronic Air Cleaner Boxes (FSEC/\$29,000)

Mechanical Technical Advisory Committee

- Priority 1: A study to determine specific changes in the code and a Committee to access the specific code sections with stakeholders to get more information to local jurisdictions (Joe Crum)

Roofing Technical Advisory Committee

- Priority 1: A cost impact study completed on decking systems in reference to the roofing diaphragms and costs to the consumer (FRSA/\$113,00 - \$156,500)
- Priority 2: Continuation of corrosion of roofing fasteners (UF/\$25,065)

Fire Technical Advisory Committee

- Priority 1: Study on impact of code issues on property insurance rates (Tony Apfelbeck/\$15,000)

- Priority 2: Cost/Benefit Analysis of Impact of Florida’s Specific Changes to 2015 I-Code Changes (Prescriptive Code Changes)”
Additional Information added to the ongoing cost impact analysis project (Jim Schock/\$25,000)
Evaluation of Cost Impact and Benefit of 2018 Prescriptive Code Changes (UF/\$79,960)
Workshop on Evaluation of the Cost Impact of Prescriptive Code Changes (UF/39,950)
Comparison of the 6th Edition Florida Building Energy Code with IECC 2018 and ASHRAE 90.1-2016 (FSEC/\$48,000)
- Priority 3: A research project on the impact of residential fire spread between buildings in a fire scenario **(No proposal submitted)**

Code Admin Technical Advisory Committee

- Priority 1: A study for building departments, contractors, owners, etc. to offer a resolution of outdated or expired permits to avoid time issues (Shane Gerwig/\$25,000)

Special Occupancy Technical Advisory Committee

- Priority 1: A study on public restrooms below the “design flood” elevation (Steve Martin/\$150,000)

Building Structural Technical Advisory Committee

- Priority 1: Expansion of the current UF project on disasters to include water intrusion requirements, flood provisions, and the CCL requirements (Jim Schock)
- Priority 2: A research project to see if it is reasonable to have a seismic design in Florida (Jim Schock/\$18,000)
- Priority 3: A study on how buildings are to be designed in the future and how the code could consider sea level rise and sea level rise parameters (Jaime Gascon/\$45,000)

Electrical Technical Advisory Committee

- Priority 1: Cost/Benefit Analysis of the requirement of automatic receptacle control in ASHRAE 90.1 to see if it is actually producing energy savings (Joseph Territo)
- Priority 2: A study to identify code modifications needed to enhance existing swimming pool electrical safety (Bryan Holland)
- Priority 3: A study to evaluate impact of code updates and the ISO, BCEGS and insurance premiums and a qualifier that would identify electrical requirements specifically (Bryan Holland)

Priority 4: A study to make sure all local jurisdictions are using the same NEC requirements (**No proposal submitted**)

Accessibility Technical Advisory Committee

Priority 1: Research on Hotel specific requirements for bed heights
Establish Bed Height, Bed Frame and Scoping Recommendations for the Florida Specific Accessibility/Transient Housing Section of Code (Diana Worrall/\$5,000)
Florida Specific Accessibility Requirements for Guest Rooms (Bemmie Eustace)

Priority 2: Research project on Chapter 233 residential facilities requirements
(Jeff Gross/\$5,000)

Priority 3: Research on the need for changing tables for adults with disabilities and what other states are doing or not to assist with this need (Brad Schiffer/\$15,000)

6. Adjournment

Chairman

ATTACHMENT 2
RESEARCH WORKPLAN AND TIMELINE

RESEARCH WORKPLAN	
TIMELINE	MILESTONE
May - June, 2017	Convene TACs to solicit research topics
July – August 2017	Compile outcomes of TACs meetings/various research topics by TAC.
July – August 2017	Make available list of research topics/Scope of Work for review at the Chairs meeting.
August 7, 2017	Chair meeting to consider and recommend list of research topics for consideration by the Commission.
August 8, 2017	Commission decisions regarding funding research projects
August/Sept. 2017	Solicit qualified entity to do the research.
October 2017	Draft contract for research and implementation.
November 2017	Start contract (contract time frame 1- year). Funding is contingent upon budget appropriation and must be spent within the Fiscal Year.
June 15, 2018	Complete research or partial research.

ATTACHMENT 3
RESEARCH PROPOSALS

1.) Residential Air Leakage Testing and Mechanical Ventilation Verification {Energy TAC P1} (FSEC) [\$59,000]
2.) Create an Electronic Storage Protocol for Building Permits {Energy TAC P2} (FSEC) [\$54,999]
3.) Residential Prescriptive and Performance Code Methodology for Crediting Smart Thermostats {Energy TAC P3} (FSEC) [\$20,000]
4.) Energy Impact of Dehumidifier Location {Energy TAC P4} (FSEC) [\$40,000]
5.) Improving Water Heating Efficiency in the Residential Performance Code {Energy TAC P5} (FSEC) [\$15,000]
6.) Investigation of Exterior Duct Condensation Potential of Deeply Buried Cold Air Supply Ducts in Florida Vented Attics {Energy TAC P6} (FSEC) [\$82,000]
7.) Air Leakage and Conductive Impacts of Central Air Deep Media Filter Boxes and Electronic Air Cleaner Boxes {Energy TAC P7} (FSEC) [\$29,000]
8.) A study to determine specific changes in the code and a Committee to access the specific code sections with stakeholders to get more information to local jurisdictions {Mechanical TAC P1} (Crum) [\$No Cost Provided]
9.) A cost impact study completed on decking systems in reference to the roofing diaphragms and costs to the consumer {Roofing TAC P1} (FRSA) [\$113,000 - \$156,500]
10.) Continuation of corrosion of roofing fasteners {Roofing TAC P2} (UF) [\$25,065]
11.) Study on impact of code issues on property insurance rates {Fire TAC P1} (Apfelbeck) [\$15,000]*
12.) <u>Cost/Benefit Analysis of Impact of Florida's Specific Changes to 2015 I-Code Changes (Prescriptive Code Changes)?:</u>
12.a.) Evaluation of Cost Impact and Benefit of 2018 Prescriptive Code Changes {Fire TAC P2} (UF) [\$79,960]* Additional Information added to the ongoing cost impact analysis project {Fire TAC P2} (Schock) [\$25,000 included in cost of 12.a.]*
12.b.) Workshop on Evaluation of the Cost Impact of Prescriptive Code Changes {Fire TAC P2} (UF) [\$39,950]*
12.c.) Comparison of the 6 th Edition Florida Building Energy Code with IECC 2018 and ASHRAE 90.1-2016 {Fire TAC P2} (FSEC) [\$48,000]*
A research project on the impact of residential fire spread between buildings in a fire scenario {Fire TAC P3} [No Proposal Submitted]
13.) A study for building departments, contractors, owners, etc. to offer a resolution of outdated or expired permits to avoid time issues {Code Administration TAC P1} (Gerwig) [\$25,000]
14.) A study on public restrooms below the "design flood" elevation {Special Occupancy TAC P1} (Martin) [\$150,000]
15.) Expansion of the current UF project on disasters to include water intrusion requirements, flood provisions, and the CCL requirements {Structural TAC P1} (Schock) [\$No Cost Provided]
16.) A research project to see if it is reasonable to have a seismic design in Florida {Structural TAC P2} (Schock) [\$18,000]

17.) A study on how buildings are to be designed in the future and how the code could consider sea level rise and sea level rise parameters {Structural TAC P3} (Gascon) [\$45,000]
18.) Cost/Benefit Analysis of the requirement of automatic receptacle control in ASHRAE 90.1 to see if it is producing energy savings {Electrical TAC P1} (Territo) [\$No Cost Provided]
19.) A study to identify code modifications needed to enhance existing swimming pool electrical safety {Electrical TAC P2} (Holland) [\$No Cost Provided]
20.) A study to evaluate impact of code updates and the ISO, BCEGS and insurance premiums and a qualifier that would identify electrical requirements specifically {Electrical TAC P3} (Holland) [\$20,000]*
A study to make sure all local jurisdictions are using the same NEC requirements {Electrical TAC P4} [No Proposal Submitted]
21.) Research on Hotel specific requirements for bed heights: 21.a.) Establish Bed Height, Bed Frame and Scoping Recommendations for the Florida Specific Accessibility/Transient Housing Section of Code {Accessibility TAC P1} (Worrall) [\$5,000]
21.b.) Florida Specific Accessibility Requirements for Guest Rooms {Accessibility TAC P1} (Eustace) [\$No Cost Provided]
22.) Research project on Chapter 233 residential facilities requirements {Accessibility TAC P2} (Gross) [\$5,000]
23.) Research on the need for changing tables for adults with disabilities and what other states are doing or not to assist with this need {Accessibility TAC P3} (Schiffer) [\$15,000]