**Research Project Ranking Exercise —Hurricane Research Advisory Committee August 3, 2020**

**Process for Reviewing Research Projects:**

* Projects proposals (4) required for support of the implementation and enforcement of the 2020 FBC and/or development of the 2023 FBC will be funded by the Commission, and will not be included in the prioritization ranking exercise.
* Remaining project proposals (5) will be tested in turn 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 be evaluated by the HRAC. PI’s 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 HRAC’s formal vote regarding which projects should be prioritized and recommended for funding by the Commission.
* PIs with projects that are deemed to meet the criteria for funding will have 5 minutes total to review their proposal with HRAC.
* Once all research project proposals meeting the criteria are presented by the PIs and public comment received, the HRAC will participate in a ranking exercise to determine the recommended priority for funding the proposed projects based on the adopted criteria and using the ten-point ranking scale described in the Ranking Matrix. The results will be presented to the Commission for their consideration during the August 4, 2020 Plenary Session.

|  |  |  |
| --- | --- | --- |
| **Proposed Research Project Funding Analysis**   * There is ~$400,000 available for FY 2020-2021 funding. * There are 4 research projects required for 2020 Code support or 2023 Code Development, requiring $201,589 in funding. * There is a request for $481,049 in funding for proposed research projects (5 projects). * Once prioritized and approved by the Commission, staff will fund the research projects in priority order for FY 2020-2021 based on the remaining funding available after funding the 4 required projects. | **Criteria for Funding**  For Each Project In Turn Does the Project Meet the 3 Criteria for Funding?   * Meets Definition of “Research” and/or “Technical Enrichment.” * Within the scope of hurricane resistance research (water and wind resistance). * Urgency/Immediacy: Needed to support the 2020 Florida Building Code, or for the development of 2023 FBC. | |
| **Project Description; (PI/Researcher); [Project Cost]** | **Yes** | **No** |
| **1.) Wind Loading on Elevated Residential Structures (FIU/UF) [$150,000]** |  |  |
| **2.) Wind-Induced Loads on Roof Overhangs (FIU) [$150,000]** |  |  |
| **3.) Updating the Statewide Extreme Rainfall Projections (FIU) [$137,124]** |  |  |
| **4.) Appendix with Optional Enhanced Construction Techniques (FDEM) [$23,925]** |  |  |
| **5.) Wind Speed Line Maps Web Viewer (UF) [$20,000]** |  |  |

Prioritization Ranking Scale—Scale Range 10 - 1 (10 highest rating to 1 lowest rating)

**10 Highest Level of Priority—Urgent/Critical 5 Medium Level of Priority**

**9 Very High Level of Priority 4 Medium Low Level of Priority**

**8 High Level of Priority 3 Low Level of Priority**

**7 Medium High Level of Priority 2 Very Low Level of Priority**

**6 Moderately High Level of Priority 1 Lowest Possible Priority—Commission Should not Fund**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Proposed Research Project** | **Rank** | **10** | **9** | **8** | **7** | **6** | **5** | **4** | **3** | **2** | **1** | **Raw Score** |
| **1.) Wind Loading on Elevated Residential Structures (FIU/UF) [$150,000]** |  |  |  |  |  |  |  |  |  |  |  |  |
| **2.) Wind-Induced Loads on Roof Overhangs (FIU) [$150,000]** |  |  |  |  |  |  |  |  |  |  |  |  |
| **3.) Updating the Statewide Extreme Rainfall Projections (FIU) [$137,124]** |  |  |  |  |  |  |  |  |  |  |  |  |
| **4.) Appendix with Optional Enhanced Construction Techniques (FDEM) [$23,925]** |  |  |  |  |  |  |  |  |  |  |  |  |
| **5.) Wind Speed Line Maps Web Viewer (UF) [$20,000]** |  |  |  |  |  |  |  |  |  |  |  |  |
| **\*The Following Projects are Needed for Support of the 2020 Code or Development of the 2023 Code and Will be Funded by the Commission** | | | | | | | | | | | | |
| **A.) \*Evaluation of the Cost Impact and Benefit of 2021 IBC Prescriptive Code Changes (UF) [$99,898]** | | | | | | | | | | | | |
| **B.) \*Deletion of the Earthquake and Snow Provisions in the FBC (Eric Stafford) [$15,600]** | | | | | | | | | | | | |
| **C.) \*Comparison of the 7th Edition Florida Building Energy Conservation Code with IECC 2021 &ASHRAE 90.1-2019 (FSEC) [$75,000]** | | | | | | | | | | | | |
| **D.) \*7th Edition (2020) Florida Building Code, Energy Conservation Volume vs. 2018 International Energy Conservation Code Residential Stringency Analysis (FSEC) [$11,000]** | | | | | | | | | | | | |