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August 2nd, 2021

Floyd Yager, Chair  
Florida Commission on Hurricane Loss Projection Methodology  
c/o Donna Sirmons  
Florida State Board of Administration  
1801 Hermitage Boulevard, Suite 100  
Tallahassee, FL 32308

Re: Notification of Interim Model Updates.

Dear Mr. Yager:

We would like to submit for the Commission's consideration an updated model platform version for North Atlantic Hurricane Models 21.0 (Build 2050) now available on RiskModeler version 2.10.2.

In accordance with the Process for Determining the Acceptability of a Computer Simulation Model, Section VI.H, (**Interim Model Updates after a Model has been found Acceptable by the Commission**) in the November 1, 2019 Report of Activities, we have prepared the following forms for the Commission's review. These are provided for the currently accepted model, the proposed updated/revised version of the model platform and the comparison between the two versions demonstrating no change.

- Form A-1 (Zero Deductible Personal Residential Loss Costs by ZIP Code)
- Form A-4 (Output Ranges, 2017 FHCF Exposure Data)
- Form A-8 (Probable Maximum Loss for Florida)
- Form S-5 (Average Annual Statewide Loss Costs – Historical versus Modeled)
- Form V-2 (Hurricane Mitigation Measures and Secondary Characteristics, Range of Changes in Damage)

In addition, revised Appendices E and F are also enclosed, which show where the revised version of RiskModeler appears on relevant screens and reports.

The forms have been provided for both the current certified model on RiskLink 21.0 (Build 2050) and the same model in the revised application Risk Modeler. A percentage change comparison demonstrates that there is no change in output between the two versions.

#### **Nature of the Software Updates/Revisions**

RMS has made the following changes to the RiskModeler 2.10.2 platform:

- One Known Issue have been fixed:
  - RM-16823: Exposure Data Modules (EDM) downloaded from Risk Modeler require running an upgrade script before they are usable in RiskLink or RiskBrowser version 21.0 The version 2.10.0 release of Risk Modeler downloads EDMs using the version 21.0 EDM schema. However, the version number (DBNUM) in the rmsver table was not updated and still showed a

value of 18.0. This field is used in RiskLink to to determine if a given database needs to be upgraded or not. This means that an EDM downloaded from Risk Modeler required running an upgrade script to change the EDM version number to 21.0 before the database was usable in RiskLink or RiskBrowser version 21. This behavior has been corrected in Risk Modeler 2.10.2.

### **The Effect to the Underlying Acceptable Model**

Logic within the platform has been revised as described in the items above.

### **The Effect on the Model Results**

This issue does not and can not affect any certified model results. The forms in the submission (as demonstrated), as well as extensive internal testing, show no difference in Florida model results for the RiskModeler platform. We have not seen any changes or problems, heard of any related to these issues, and do not expect changes in results at any time in the future under realistic conditions.

Thank you for your consideration.

Sincerely,

Matthew Nielsen

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