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December 21, 2020

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 Type I Error.

Dear Mr. Yager:

We would like to submit for the Commission's consideration an updated model, North Atlantic Hurricane Models 18.1.2 (Build 1945) which contains model changes that may affect the acceptability of our previous model, North Atlantic Hurricane Models 18.1 (Build 1945). The models are only available on the RiskLink platform, as it addresses a software issue that only exists in RiskLink.

In accordance with the Process for Determining the Acceptability of a Computer Simulation Model, Section VI.F, (**Discovery of Differences in a Model after a Model has been Determined to be Acceptable by the Commission**) in the November 1, 2017 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 software and the comparison between the two versions demonstrating no change.

- Form A-1 (Zero Deductible Personal Residential Loss Costs by ZIP Code)
- Form A-4B (Output Ranges, 2012 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 North Atlantic Hurricane Models 18.1.2 (indicating the revised version) on relevant screens and reports.

The forms have been provided for both the current model and the revised version of the model. A percentage change comparison demonstrates that there is no change in output between the two versions.

Nature of the Software Updates/Revisions

RMS has determined that the following item, addressed in North Atlantic Hurricane Models 18.1.2 (Build 1945), constitutes a Type I error:

- Analyses run in a remote distributed or on enterprise grid computing environment with batch analyses at multiple output levels in the Detailed Loss Model profile may occasionally fail at 85% completion .

The Effect to the Underlying Acceptable Model

The issue only affects DLM analyses run in remote distributed or enterprise grid computing environments on the RiskLink platform and does not affect models, databases, or software features. A script was created to correct the issue.

The Effect on the Model Results

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

Thank you for your consideration.

Sincerely,

Matthew Nielsen

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