



THE WORLD BANK
FINANCE & MARKETS GLOBAL PRACTICE

Subject: Letter of Reference

June 25, 2016

To Whom It May Concern:

This letter serves as a letter of reference for Dr. Frank Cuypers and his actuarial consultancy – PRS. In 2016, the PRS was retained under a World Bank funded contract to perform actuarial services for Europa Reinsurance Facility (Europa Re), a catastrophe risk Swiss reinsurer implementing the World Bank program of technical assistance on catastrophe insurance in 3 countries of Southeast Europe. Specifically, Dr. Cuypers of PRS was tasked with developing an internal risk model for Europa Re with the view to replacing the standard risk model currently used by the company for calculating its risk-adjusted solvency ratio under the Swiss Solvency Test. The assignment involved collecting portfolio data on the company's main business lines, including modeled outputs from the company's catastrophe risk model for flood, earthquake and several climatic perils, and developing probabilistic projections of the company's underwriting and financial results. Besides the insurance risk, the model also incorporated the market and credit risk modules and operational risk scenarios.

We have been very pleased with the technical quality and professionalism of Dr. Cuypers and his staff at PRS, which were able not only to develop a highly sophisticated internal risk model in a record time, but also trained Europa Re's staff in its use. The model now is widely used as an essential tool for making virtually all underwriting and investment decisions by the company.

Due to his exceptional actuarial qualifications, responsiveness to the client requests and willingness to share his knowledge with the company staff, Europa Re has recently asked Dr. Cuypers to become the company's Responsible Actuary as of July 1, 2016 (on a part-time basis), which Dr. Cuypers has accepted.

We are truly excited to have Dr. Cuypers onboard advising the company and the Bank on essential actuarial matters going forward.

Please feel free to contact me for any additional information or clarifications on the subject matter at egurenko@worldbank.org or at my office number at +1(202) 458 5414.

Sincerely,

Eugene Gurenko,

Lead Insurance Specialist, Ph.D., CPCU, ARe