

ACTUARIAL RESEARCH CLEARING HOUSE
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Mr. Arnold F. Shapiro
Joint Editor, ARCH
509B Business Administration Building
Pennsylvania State University
University Park, Pennsylvania 16802

Re: Actuarial Note: The Distribution Functions of Collective Risk
Theory as Linear Compounds

Dear Mr. Shapiro:

Thank you for forwarding the comments of Mr. Seal.

My Note was written in order to share what is, for me, a useful and illuminating computational device. The results used are fairly well known even apart from risk theory. They appear in queuing theory, for example, in connection with inventory control questions.

The use of Laplace Transform is merely a matter of terminology. There is intended to be an emphasis on the computational and practical aspects of dealing with collective risk functions.

Sincerely,



Ethan Ströh
Consulting Actuary

