

Interactive comment on “Weight analysis of dam break risk consequences influencing factors” by Zongkun Li et al.

Zongkun Li et al.

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Dear Dr. Dhruvesh Patel:

Thank you for your precious comments. The responds to the reviewer’s comments are as flowing:

Comments from Editor: 1) I concern behalf of the stakeholder that the prescribed approach would be applicable for dam break cases before the break or after the break. Please include your comment in revised version. Author’s response: The applicability of the prescribed approach is very extensive. The main reasons are the flexibility of indicators selection and the independent feature of expert scoring. This manuscript analyzed the risk factors before the dam break. Different from risk analysis before the

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dam-break, vulnerability indicators are the main focus for disaster loss analysis after the dam-break. So the stakeholders can select the vulnerability indicators only, and the approach of calculation is still effective. Because of the independence of expert scoring, the previous scoring records of experts are still available, which improves the efficiency of further weight evaluation.

2) Is prescribed approach applicable only for china’s dam? Or applicable for any dam break case in the world, kindly include your justiiñAcation in conclusion part. Author’s response: The approach can be applicable to any countries or regions in the world, while the weight distribution in this manuscript is suitable for China. Because the weight calculation results depend on experts’ scores, and experts from different countries have different understandings of risk factors, depending on their inclination. For example, in addition to the constant concern about the loss of life, some countries will regard environmental losses as more important than economic losses, while some countries will have different or even opposite opinions. So different countries can use this approach to get the weight distribution of risk factors suitable for their national conditions.

We already finished the revised version manuscript and the whole version of the Authors’ Response. So we can upload them at the first time when the discussion is closed and the access is available. We want to thank you again for your efficient work.

Kind regards,

Wei Li Zhengzhou University on behalf of the co-authors

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