

Interactive comment on “Analysis of water distribution network under pressure deficient conditions through Emitter Setting” by Suribabu Conety Ravi et al.

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General Comments: Authors proposed an iterative approach to analyse pressure deficient networks. This is one of the important topics that need better algorithms to solve the various bottlenecks that arises while analyzing water distribution networks under different scenarios. Authors approach is an improvement over some of the existing approaches where emitter option of EPANET software used to model pressure deficient network. Authors provided good overview and literature review on the topic. The proposed methodology defined clearly and its applicability illustrated with few benchmark networks. Case studies are discussed well.

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Reply: The authors thank the reviewer on encouraging general observation on the work.

Specific Comments

(1) In the EPANET all information is entered manually. In this method whether revised parameters should be added manually or automatically? How?

Reply: The revised parameters were modified manually in the presented research. However, for large networks, automation can be utilized by using EPANET Toolkit (dynamic link library file).

(2) “snapsort” should be written as “snapshot”

Reply: snapshot is agreed.

(3) How emitter coefficient is calculated? Whether discharge unit needs to be substituted with EPANET default set value?

Ans: The procedure for calculating the emitter coefficient is given in the paper in equation 2. The default unit used by EPANET is to be maintained.

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