#### PART 1:

| Journal Name:            | Journal of Engineering Research and Reports   |
|--------------------------|---|
| Manuscript Number:       | Ms_JERR_130296  |
| Title of the Manuscript: | Three New Approaches to estimating Energy Losses in Stepped Spillways with the Channel slope of 8.90. |
| Type of Article :        | Original Research Article   |

#### PART 2:

| FINAL EVALUATOR'S comments on revised paper (if any)   | Authors' response to final evaluator's comments  |
|--|--|
| In my first review, my final comment on the Conclusions section was clipped short and apparently did not fully reach the authors. I meant to say:  |  |
| The Conclusions section states:  |  |
| The results from the developed models, Eq (9) to Eq (11), compare well with the measured data sets (Run 1 to Run 4) in terms of energy dissipation, with the coefficients of correlation that range between 0.95 and 1.0.  |  |
| My comment (which was not included) was:   |  |
| I disagree strongly with the conclusion. The comparison is relatively poor and I believe the correlation coefficients are calculated incorrectly.  |  |
| After reviewing this revision, my opinion is still the same. The authors challenged me to test their curve fits and my observations about the insensitivity of results to various parameters. I find that my original observations were on-target. Model-1 is almost absolutely insensitive to N and h (which is obvious from the fact that the exponents of those terms are nearly zero). Furthermore, N, h, and $\Box$ are fixed for all data sets, so the models are just functions of $(N \cdot h)/d_c$ . My previous observation that the fit of the plotted data in the figures does not correspond to the extremely high correlation coefficients (almost equal to 1) is still true. I tried to recreate figures 5.7, and 9 by overlaving my own plots on theirs and performing my own curve fit. I find that when Luse | We detected several grammatical errors (highlight<br>made within the few paragraph of their comment.<br>If they could make such blunders in a few paragra<br>volume of blunders that would made with a two-paragra |
| equations 9 and 10 to calculate and plot the model curves (Model-1 and Model-2), they do not match the curves in the authors' figures. They also do not match the measured data. I also used Excel to generate my own power curve fitted to the measured data and found that reasonable fits can be obtained, but they do not remotely resemble the equations provided in this paper. You should have split this sentence.   |  |
| curve to match their model-computed values. These correlation coefficients do not represent the quality of the fit between measured data and the proposed models.  |  |
| My overlaid plots are shown on the next pages:   |  |
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