



Interactive
Comment

Interactive comment on “Seismic behavior of buried pipelines constructed by design criteria and construction specifications of both Korea and the US” by S.-S. Jeon

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I deeply appreciate for the review of the paper. I am very happy to change the errors of the manuscript based on referee comments. The change is following as,

01: Page 392 line 26, the algorithm of RR -> the algorithm of repair rate (RR)

02: Page 393 Line 1, peak ground velocity (PPV) -> peak ground velocity (PGV)

03: Page 402 - Table 2

$D \geq 100 \text{ mm}$ -> $D \geq 1000 \text{ mm}$

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04: Page 404 - Table 4 (actual input values used in numerical analyses)

Table 4. Mechanical characteristics of soils used in numerical analysis

Soil (Unit weight), Clay(15.0), Loose sand(18.6), Medium dense sand(19.0), Dense sand(19.4), Dense sand and gravel(20.0)

05: Page 395 Line 22

the mobilized stress in pipelines linearly increases as PGA increases and ground stiffness decreases -> the mobilized stress in pipelines linearly increases as PGA increases and the stiffness of ground such as medium dense sand, dense sand, and gravel decreases. However, the mobilized stress in pipelines is slightly larger for loose sand than that for clay. It is explained by the complexity of ground stiffness determined by higher friction angle and no cohesion for loose sand and lower friction angle and cohesion of 10 kPa for clay.

05: Page 396 Line 14

stresses in pipelines linearly increases as PGA increases and ground stiffness decreases -> the mobilized stress in pipelines linearly increases as PGA increases and the stiffness of ground such as medium dense sand, dense sand, and gravel decreases. However, the mobilized stress in pipelines for loose sand is slightly larger than that for clay. It is explained by the complexity of ground stiffness determined by higher friction angle and no cohesion for loose sand and lower friction angle and cohesion of 10 kPa for clay.

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/1/C97/2013/nhessd-1-C97-2013-supplement.pdf>

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 1, 389, 2013.

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