

CHEMICAL ENGINEERING TRANSACTIONS

DOI: 10.3303/CET25116087

framework, subsequent simplified models (SM) and shaking table test experimental results. The FE model

The single pontoon roof is the most common, the buoyancy of which depends on an outer circular pontoon that is divided into sections. The middle part of this roof consists of a membrane of steel plates, welded to the inner edge of the pontoon, and this structure helps the roof to float on the liquid surface. The floating roof broad tank

(a) Pantograph-type seal

(b) SolidWorks model of a pantograph-

analysis of the earthquake behaviour of the roof but also enhanced computational efficiency by employing appropriate modelling techniques for each part of the system.

4. Fragility assessment of the case study

Fra0-3 (e)9 (c)-6 (h)-3 (n)9 (i)-4 (q)9 (u)-3 (e)-3 pan 4 Lang (en-US)/MCID 2 BDC q0 0 595.32 88

Nomenclature

CPA – contact pressure approach

FE – finite element