Professor Luis E. Suarez

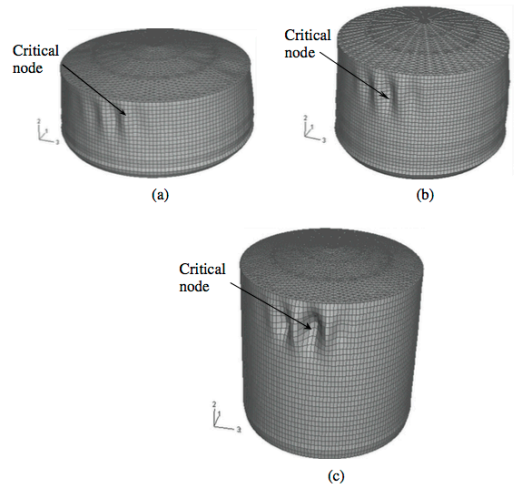

FIGURE 9 First buckling mode for the tank-liquid systems, from step-by-step static non-linear analyses. (a) Model A, (b) Model B, (c) Model C.

From: Juan C. Virella, Luis E. Suarez and Luis Augusto Godoy, "A static nonlinear procedure for the evaluation of the elastic buckling of anchored steel tanks due to earthquakes", Journal of Earthquake Engineering, 08/2008, Vol. 12, No. 6, pp 999-1022, 2008

See:
http://www.researchgate.net/profile/Luis_Suarez11
https://scholar.google.com.pr/citations?user=_4Q7C5AAAAAJ&hl=en
http://circ.uprm.edu/newsite/webresearchers/LuisSuarez/publications/publications.htm

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Selected Publications:

Juan C. Virella Crespo, Luis A. Godoy, and Luis E. Suarez, "Buckling and Retrofit of Steel Tanks Subject to Wind and Earthquake Loadings", talk given in 2002. Some nice photographs of buckled tanks. This citation consists of vufoils (like a PowerPoint presentation). No abstract nor references are given.

Virella, JC, Suarez, LE, Godoy, LA, "Effect of pre-stress on the impulsive modes of vibration of cylindrical tank–liquid systems under horizontal motions", Journal of Vibration and Control 2005;11(9): 1195–220.

Virella JC, Godoy LA, Suarez LE. "Fundamental modes of tank–liquid systems under horizontal motions", Engineering Structures, 2006, 28(10): 1450-1461

J.C. Virella, L.A. Godoy and L.E. Suárez, "Dynamic buckling of anchored steel tanks subjected to horizontal earthquake excitation", Journal of Constructional Steel Research, Vol. 62, No. 6, June 2006, pp. 521-531

Juan C. Virella, Luis E. Suarez and Luis Augusto Godoy, "A static nonlinear procedure for the evaluation of the elastic buckling of anchored steel tanks due to earthquakes", Journal of Earthquake Engineering, 08/2008, Vol. 12, No. 6, pp 999-1022, 2008