

Not Just Pretty Icons...Cool B31.8, B31.8S and B31G Tools Too!



ASME B31.X Tools. HCI Systems, Inc.

This article is a follow-up on my previous article on tablet ready MI Tools from HCI Systems software and many requests on how these tools can help with the PHMSA pipeline industry. So here we go....

If you are familiar with the ASME B31.8 code, B31.8S Supplement and B31G Manual For determining Remaining Strength of Corroded Pipelines, you are looking at sixteen (16) compliance Apps from vibration factors to dispersion modeling and wind influence factors.

The B31G calculator provides Level 0, 1 and 2 analysis of corroded pipelines. Level 1 and 2 align with API 579 fit-for-service analysis levels.

The B31.8 ROE provides a risk assessment tool for H₂S releases. This is derived from the Pasquel-Gifford equation and then some. Wind impact can be modeled to allow the radius of exposure (ROE) to be sculpted for wind direction and speed.

The B31.8 Impact Areas provides a risk assessment tool for line leaks or breaks. As with the ROE tools it has a wind influence factors for wind direction and speed.

Both the ROE and Impact Area dispersion modeling tools are overlaid on a Google map background so you can see how the model interacts with local environment and residential communities. Now that is really cool.

Libraries are included for B31.8 Facilities, welding types, procedures, pipe coatings, pipe properties, pipe grades, soil types, process parameters....all of which comprise a library of B31.8 Piping Design Tables for compliance documentation and mechanical integrity assessments.



These Apps are web based so no special software installs are needed on your computer.

Over the next few weeks I will be posting details about each of these Apps. If you cannot wait that long, you are going to have to contact me at richgehse@hcisoftware.biz

Aren't you ready for a better set of tools?

HCI Systems, Inc.

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