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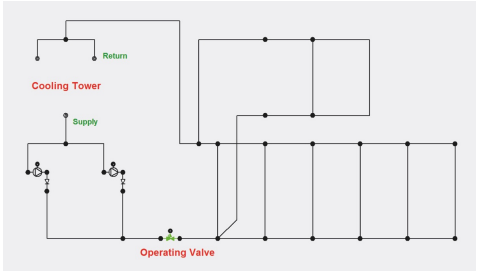
Application Bulletin – Process Industry

PIPENET® Transient Module Case Study



SURGE ANALYSIS OF A PETROCHEMICAL PLANT COOLING WATER SYSTEM

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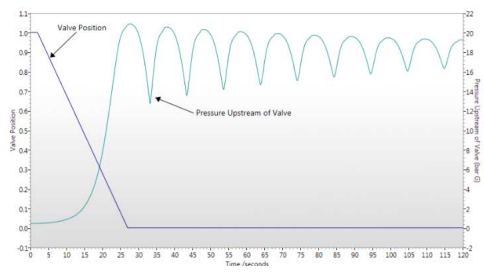

JETTY LOADING SYSTEM

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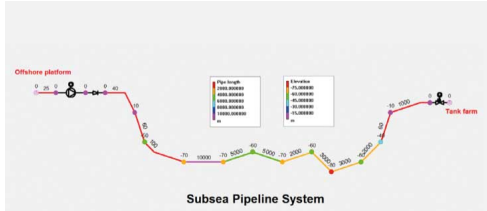

SUBSEA PIPELINE SYSTEM

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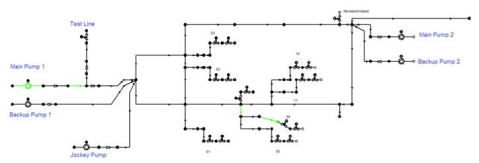

PUMP STARTUP IN OFFSHORE OIL RIG FIREWATER SAFETY SYSTEM

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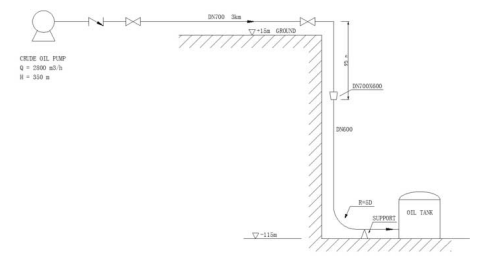

Cavitation Elimination in Long Vertical Pipeline

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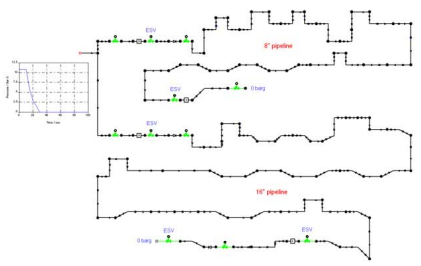

OPTIMIZED ESV OPERATION IN A LONG OIL PIPELINE

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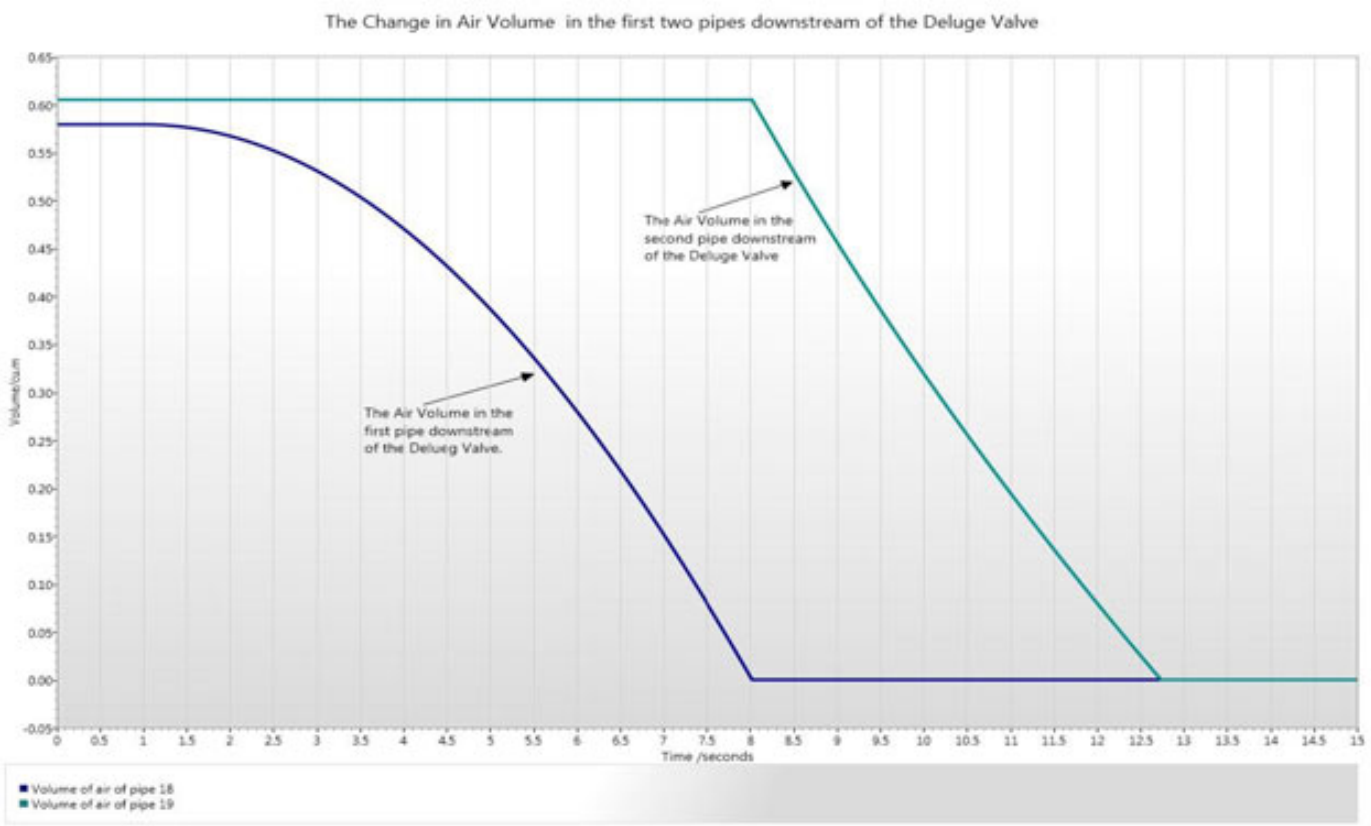

Dry Pipes and Nozzles

We can graph the volume of air and fluid in the network, and superimpose the results as desired. For example, below is a graph comparing the volume of air in the first and second pipes after the deluge valve. The first pipe is the blue line as one would expect, the air is expelled from the first pipe before the second pipe (green line) begins to fill up.

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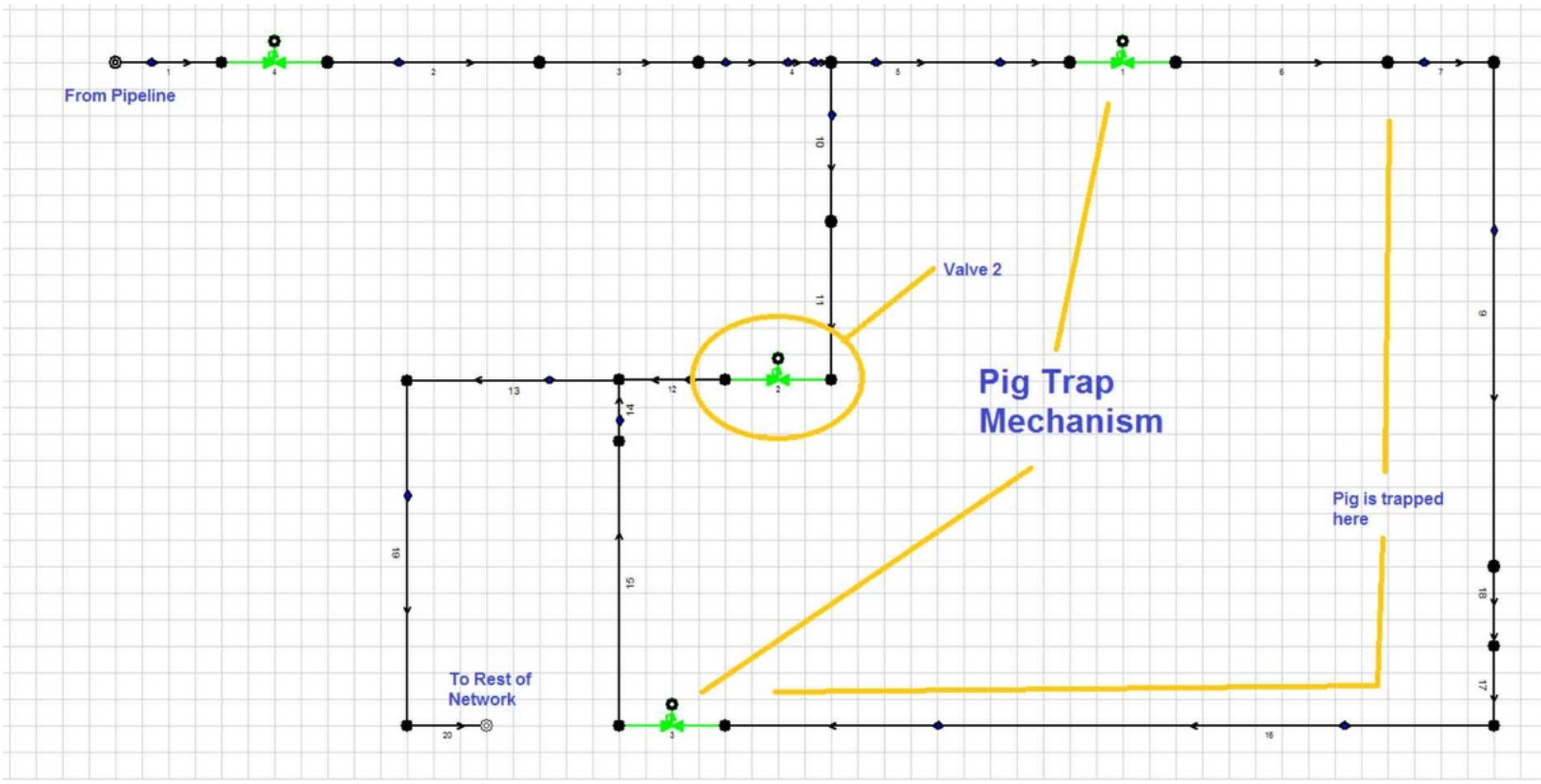

MODELLING A PIG RECEIVER

The pig trap mechanism is shown in figure 1. Essentially, while the pig is operating in the pipeline, valve 2 is shut and the flow ahead of the pig is pushed into the pig trap mechanism. As the pig passes the first

pig trap mechanism valves, valve 2 is opened and both pig trap mechanisms are shut, thus “trapping the pig”.

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