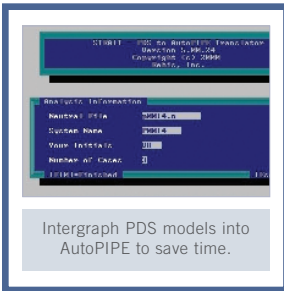


BENTLEY® STRAIT

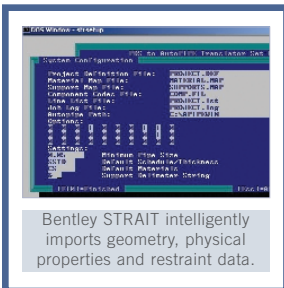
Intelligent data integration between Bentley® AutoPIPE® and Intergraph PDS



Bentley® STRAIT is a productive and cost-effective integration tool between Bentley AutoPIPE stress analysis software and the Intergraph PDS CAD system. Bentley STRAIT is designed to intelligently import geometry, physical properties and restraint data from the PDS Model Neutral File into Bentley AutoPIPE. The man-hours saved by using Bentley STRAIT to create the pipe stress model can be better spent on performing more analysis to achieve efficient and quality designs.

Customizable Map Files

Bentley STRAIT uses text files for mapping of components, pipe materials and support types between Bentley AutoPIPE and Intergraph® PDS. These map files allow the maximum flexibility to translate custom components, pipe materials and support types defined in the PDS CAD system.

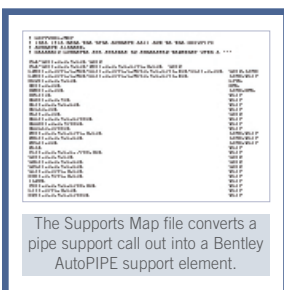


Efficient Pipe Support Call-Out Definition

The Supports Map file converts a pipe support call-out, specified in the PDS Model Design file, into a Bentley AutoPIPE support element. Many pipe support call-out schemes have multiple variable fields that can contain a variety of characters. The Supports Map file is an efficient method of translation because it uses the same method of multiple variable fields for defining the pipe support call-out format. The Supports Map file also allows support assemblies—where a pipe support is built from a combination of standard pipe support components—to be mapped to one or more Bentley AutoPIPE support elements.

External Line List File

Bentley STRAIT provides an option to use a user-defined, external Line List file to automatically supply the load data for a piping system when the load data is not present in the Model Neutral file. Projects that do not use PDS P&IDs will not have the load data in the Model Neutral file. The Line List data also includes corrosion allowance, insulation data and the specific gravity.



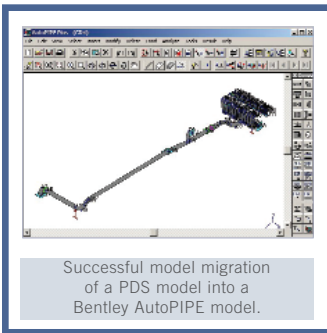
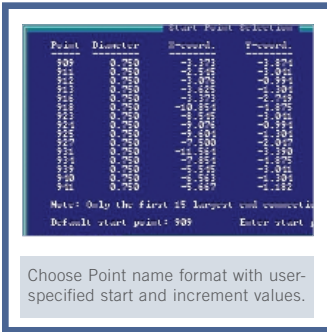
Project Log File

The Project Log file contains an entry for each translation process. This file can be used to keep track of the extraction process for a project. It contains the name of the Batch Input file, the Model Design files, the line numbers, the date of extraction from the model and a message on the success of the translation.

Pipe Size Filter

When performing a pipe stress analysis, small branch lines such as instrument connections are typically excluded from the pipe stress model. To automatically exclude small branch lines during the translation process, Bentley STRAIT provides the option to specify the minimum nominal size for piping that will be imported into the Bentley AutoPIPE model.

BENTLEY STRAIT AT-A-GLANCE



Customization and Command Options

- Customized PDS Stress Analysis Interface Module Options file and Component Map file included
- Tracking of each translation process for a project through an automatic log file
- Diagnostics file generation to resolve problems during the translation process
- Capability to import standard tubing components and materials from PDS to Bentley AutoPIPE
- DOS command line options for automated batch input processing
- Customizable map files for component names, material names and supports call-out

Configuration Settings

- Project definitions for pipe analysis code, ambient temperature and output units
- Default settings for minimum pipe size, pipe schedule/thickness and pipe material
- Names of component, material and supports map files
- Folder locations of input PDS model-neutral files and output Bentley AutoPIPE batch NTL files

Optional Translation Settings

- Retrieval of load data from PDS Model Neutral File or external line list file
- Ability to choose Point name format with user-specified start and increment values
- Definition of PDS model coordinate system in terms of the Bentley AutoPIPE coordinate system
- Generation of pipe identifiers as a combination of size, schedule and material
- Processing of nominal pipe size in English or Metric units
- Recovery of the flange and valve weights automatically from the Bentley AutoPIPE component library instead of from the PDS model neutral file
- Ability to set origin of Bentley AutoPIPE model to (0, 0, 0) instead of PDS model origin
- Generation of map file of PDS support identifier and corresponding Bentley AutoPIPE point name

SYSTEM REQUIREMENTS

- Processor: Pentium® II 400mHz
- Operating System: Windows® 98, Windows NT® 4.0 SP6, 2000
- Memory: 128MB RAM
- Disk Space: 10MB

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