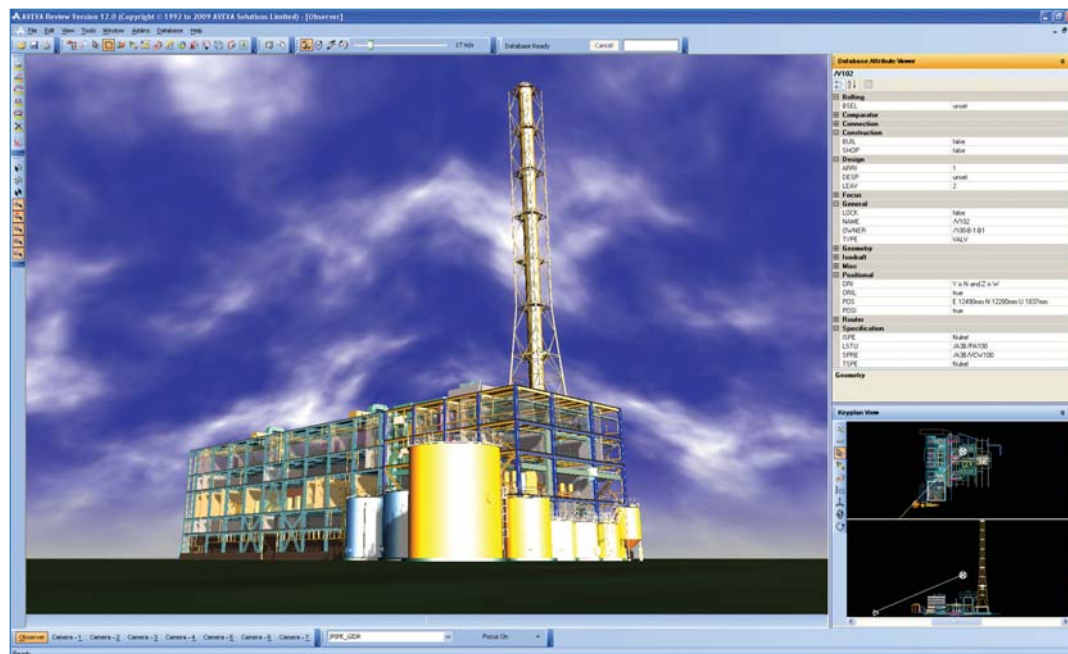


AVEVA Review 12.0

3D model visualisation for design, construction, commissioning, operations and maintenance

AVEVA Review is a highly effective and intuitive 3D visualisation tool for displaying and interacting with plant and marine model data from a range of 3D design systems, principally AVEVA PDMS or AVEVA Hull & Outfitting. Review delivers a realistic, easily navigated view of the model, usable by all disciplines throughout the project lifecycle.

Review is specifically designed to meet today's industry demands for the effective review of every size of project, from the smallest module to the biggest global collaboration. With the underlying data as the key, users can freely 'move about' in the design, to view areas of interest and check equipment attributes, locations and status. For communicating complex ideas or undertaking multi-discipline project reviews, without the cost and disruption of physical travel, Review provides the perfect visual collaboration link for use at all stages of the project lifecycle, using standard enterprise communications. Now, with the added functionality of AVEVA ReviewShare, 3D communication can be used as an everyday working tool by all participants in projects of any size, anywhere in the world.



AVEVA Review visualisation of a PDMS model showing live attribute data

Business Benefits

- **Better-quality project proposals**
Use Review to present the conceptual or bidding model convincingly to non-specialist stakeholders.
- **Improved project efficiency**
All project disciplines can assess the progress of the design frequently, and with minimum disruption, as it develops.
- **Improved communication**
Intuitive navigation of a single, up-to-date data set enables every discipline to understand the design and contribute effectively.
- **Improved execution of brownfield or refurbishment projects**
Laser-scanned site surveys may be incorporated into the Review visualisation.
- **Increased design efficiency**
Use AVEVA ReviewShare for rapid resolution of the myriad day-to-day design queries.
- **Improved planning for fabrication, construction and commissioning**
- **Optimised design for efficient operations**
Perform Mechanical Handling simulation and evaluate operational, maintenance and emergency procedures at the earliest stage.
- **Reduced risk**
Make HAZOP and safety reviews easier and more thorough.
- **Reduced commissioning cost and time**
Use Review for early workforce training.

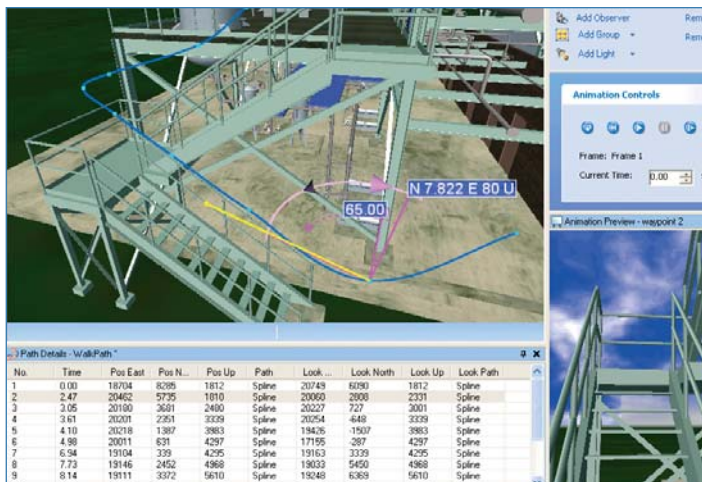
PLANT

MARINE

Key Features

Review delivers high-performance 3D model rendering and walk-through for large, complex plant and marine models.

- Interactive graphics, with an easy-to-use interface, maintaining high performance, real-time 3D rendering of the largest and most complex models.
- Outstanding realism, created by the ability to define multiple lighting and material textures and apply scenic backdrops, fog and real-time shadow effects.
- Effective viewing capabilities, with multiple camera modes, stereo and key-plan display control, enable users to gain a rapid and thorough understanding of the project.
- Realistic animation walk-through and motion simulation of items within the model, for mechanical handling evaluation, including interference checking.

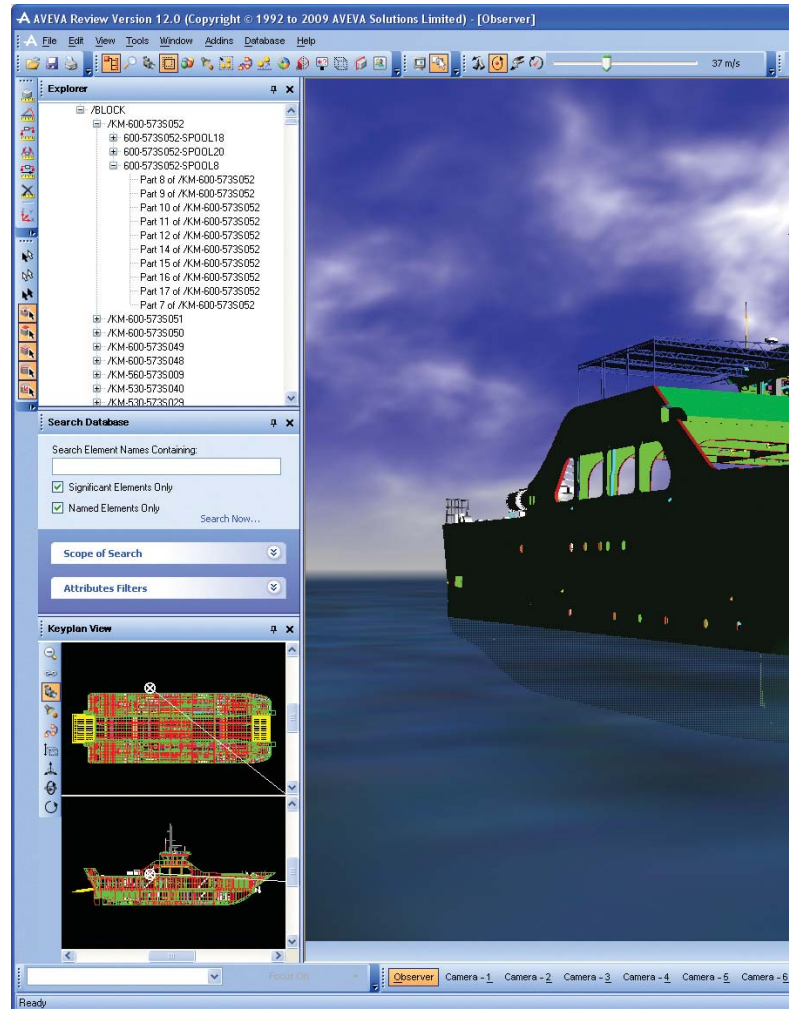


Viewing and editing animation paths within the 3D view

- Global communications support to enable collaborative multi-site project reviews.
- Model query, providing instant access to item identification, tagging, location, attributes and measurement enquiries.

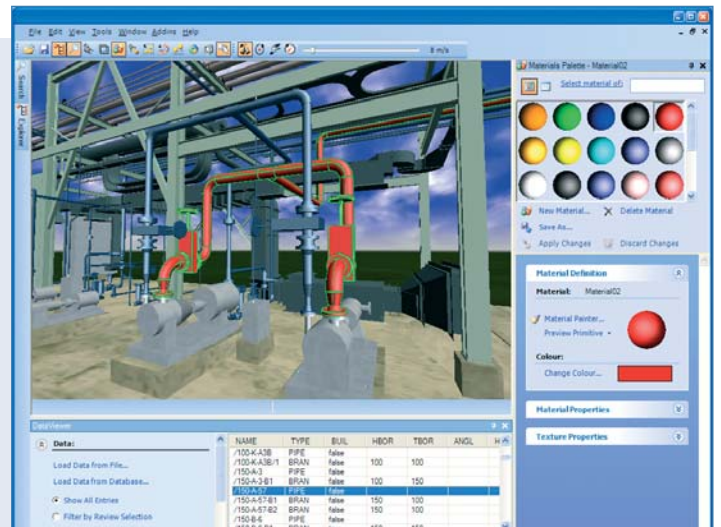


Material, texture and lighting controls for highly realistic visualisation
Courtesy of Paks Nuclear Plant Company, Hungary

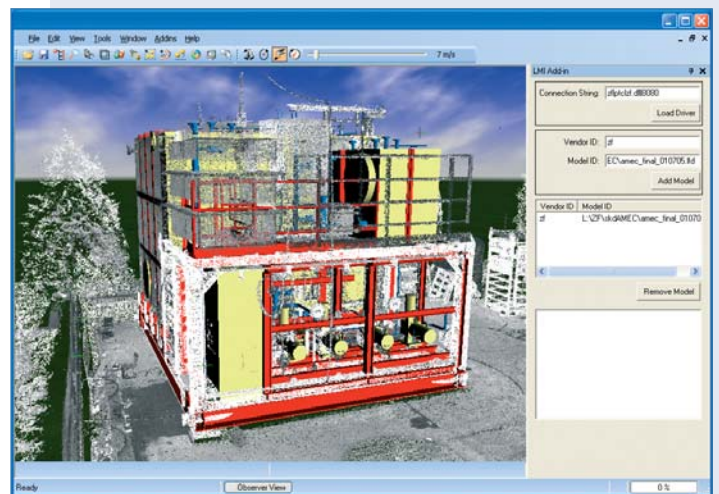
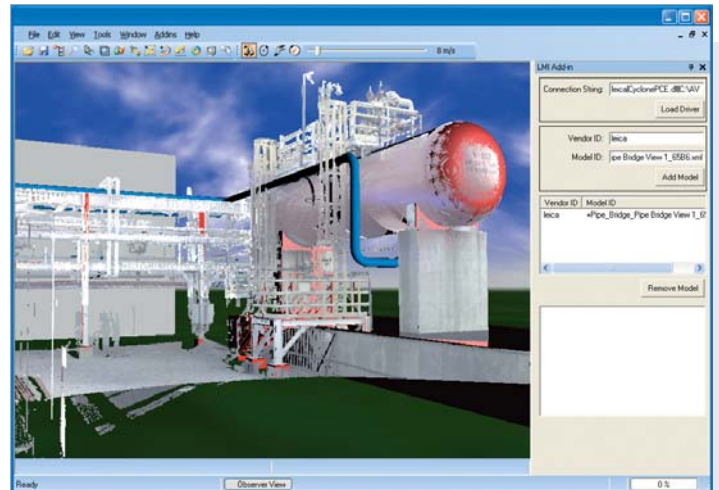
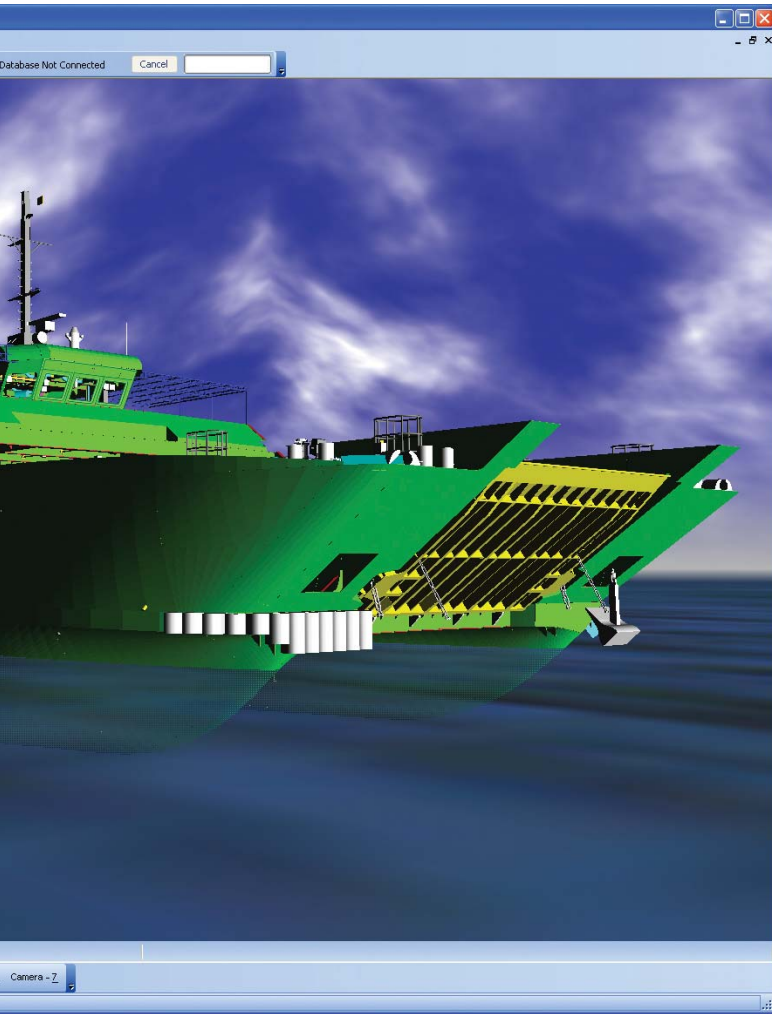


AVEVA Review offers extensive model navigation and search capabilities

- Ability to colour-code model objects by attribute, such as maturity status.
- Data-sharing flexibility, with various data formats supported on import – for example, the loading of 3D DGN data.
- Scalable visualisation, from laptops to wide-screen reality centres.

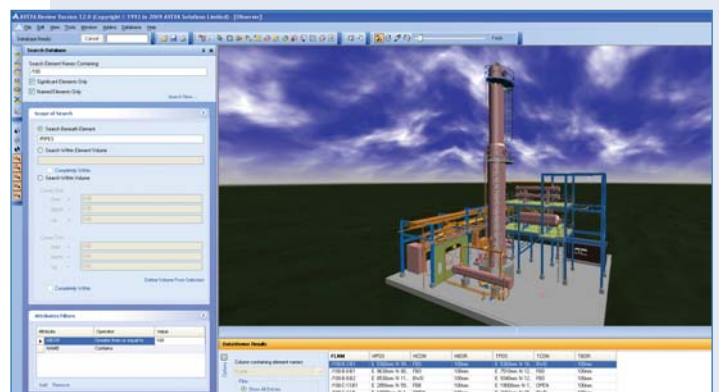


Using the Data Viewer for navigation and visual reporting



Point cloud data can be overlaid onto the design model

- Model export to Adobe Acrobat 3D PDF and Autodesk DWF 3D document formats.
- Microsoft.NET technology, providing a familiar user interface, straightforward customisation, interoperability and extensibility.
- Easily managed screen space for maximum viewing area.
- Comprehensive measurement options, including:
 - Linear/angular
 - Point-to-point
 - Surface-to-surface
 - Axis direction
 - x y z components and true distance.



Using the Database Search tool to query objects and attributes direct from the design database

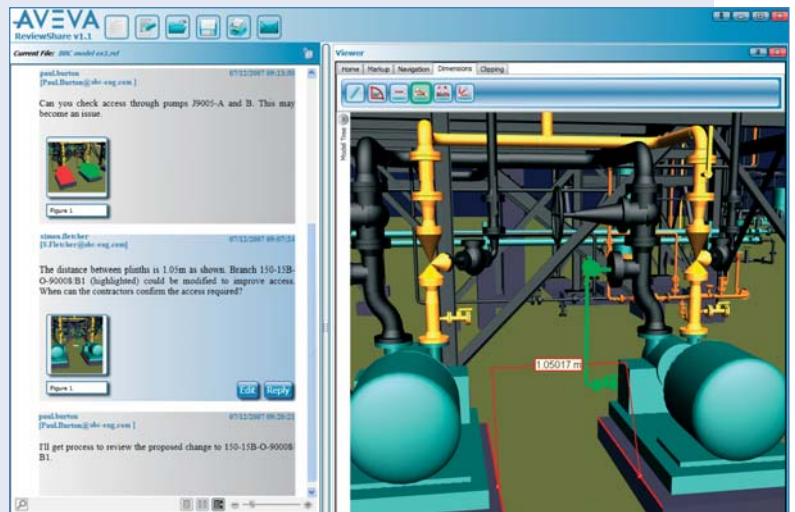


High quality rendering for print and .avi video production

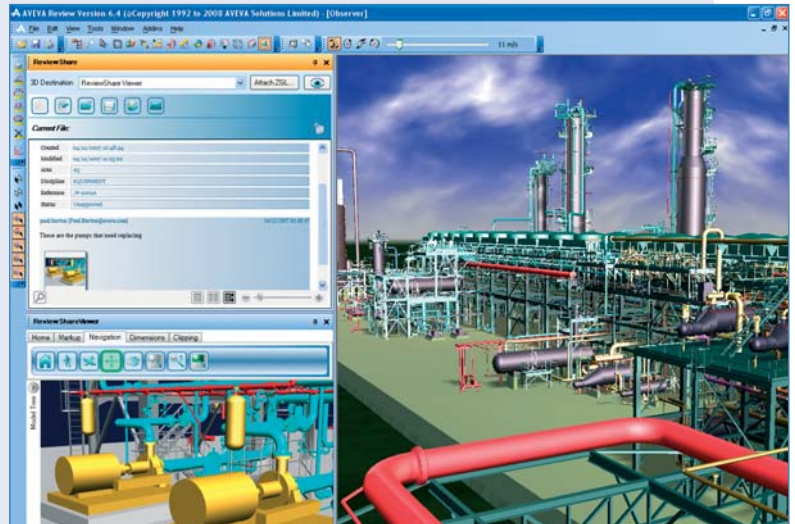
Temelin Power Station in the Czech Republic. Courtesy of CEZ, a.s.

New in AVEVA Review 12.0

- **Direct connection to AVEVA PDMS and AVEVA Hull & Outfitting**
Direct (read-only) access to the PDMS or Hull & Outfitting model lets users browse the design hierarchy and load geometry directly. This ensures the Review visualisation is up to date, and avoids tying up design resources to create the Review model.
- **Enhanced Dataviewer**
 - Load attribute data directly from the design database.
 - Search the model by attributes (e.g. all pipes above a certain size).
 - Export data in .csv or .xls formats.
- **Reduced file size**
Save and open compressed (.rvz) model files.
- **Enhanced ReviewShare support**
- **Command-line creation of ReviewShare files**, for easier automation.
- **Automatic publishing of attribute data to ReviewShare.**
- **Selective publishing of model elements and attributes to ReviewShare.** This can make ReviewShare use easier and limit users' access to only the necessary areas of the model.



AVEVA ReviewShare in action, showing mark-up, annotation and a trail of comments from different reviewers. Comments and mark-up are circulated in the ReviewShare document, by email.



AVEVA ReviewShare integrates seamlessly with existing AVEVA products. Here, we see AVEVA ReviewShare (left) running within AVEVA Review to facilitate the capture and analysis of issues during the design review process.

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PLANT

MARINE

AVEVA
CONTINUAL PROGRESSION

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