

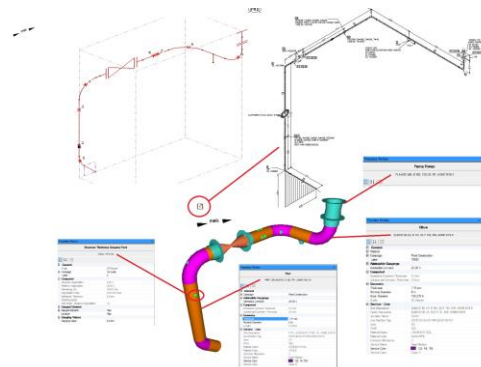
## Enabling progressive asset documentation reliability

### Customer:

**MODEC** is a general contractor specialized in engineering, procurement, construction and installation of floating production systems including FPSOs, FSOs, TLPs, Production Semi-Submersibles, Floating LNGs (FLNGs), Mobile Offshore Production Units (MOPUs) and other new technologies which will meet the challenges of various types of gas production floaters. MODEC provides Floating Production System operation and maintenance services around the world.

### Challenge

The complex work done to transform a large ship into FPSOs mixing old documents from the original vessel with conversion repairs and new top side piping generates a massive amount of data that needs a huge effort to organize and fix inconsistencies that always arise after asset delivery for operation. The operation team is always overloaded and don't have time to fix what should be ready from the beginning.

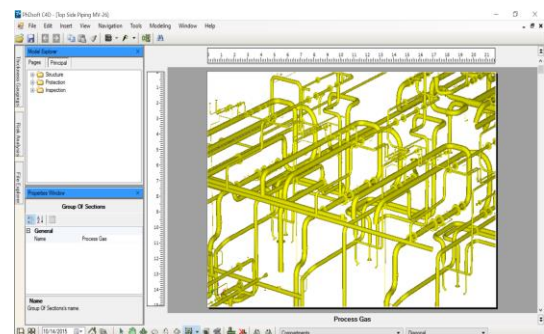


### Solution

PhDsoft® used state of the art cross checking software algorithms to find inconsistencies and normalize documentation during the modelling process. Inconsistent or missing information not realized during the 3D model setup were naturally found on inspection works and pointed out for consolidation in C4D® model. The updated information was automatically disseminated over the internet to all stake holders improving the quality and knowledge management of the asset documentation continuously. “As built” and “As is” became natural consequences of the maintenance management process implemented by C4D®.

### Outcome

Considering the waste of time avoided with looking for and interpreting documentation with different styles and quality and also not spending time with organization issues allowed the operation team to 20% more time to avoid failures, accidents and unplanned stops that could result in hundreds of thousands to millions in losses to the company.



### Customer comments

*“Without C4D we would be forced to spend huge time to fix documentation”*

*“We would never have got to organize the documentation in that amount of time without C4D®”*

*“The ‘As is’ done by C4D is more reliable over time than the one done manually”*