

# Process, Power and Marine Division

## SmartPlant 3D Common Functions

Management Overview Training



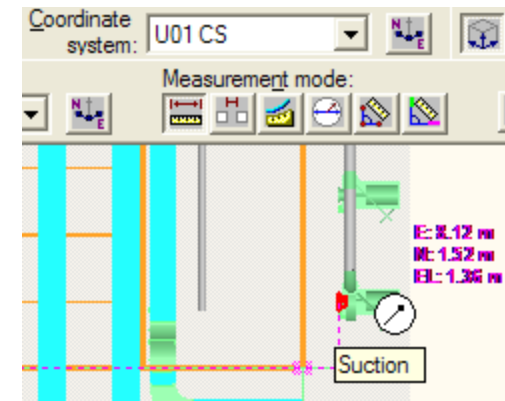
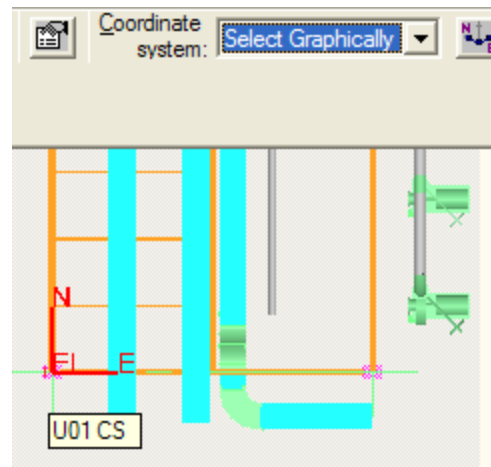
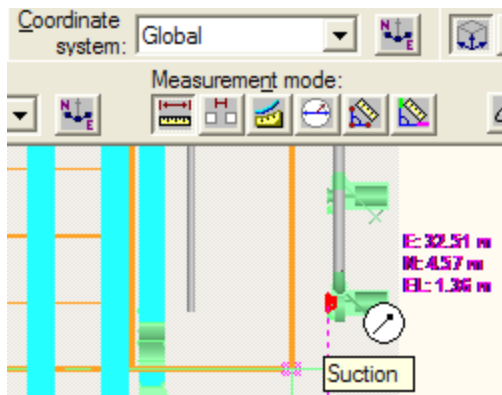
# Permission Controlled Placement

- Each object in SP3D has a permission group, a status and tracking of creation and modification

Equipment Properties					
Occurrence	Definition	Connection	Relationship	Configuration	Notes
Plant:	SP3DTrain				
Permission group:	<input type="text" value="Equipment"/>				
Status:	<input type="text" value="Working"/>				
Created:	1/17/2007 11:05:27 PM				
Created by:	NAJAFXP1\nbashir				
Modified:	1/26/2008 7:04:21 PM				
Modified by:	INGRNET\rhim				

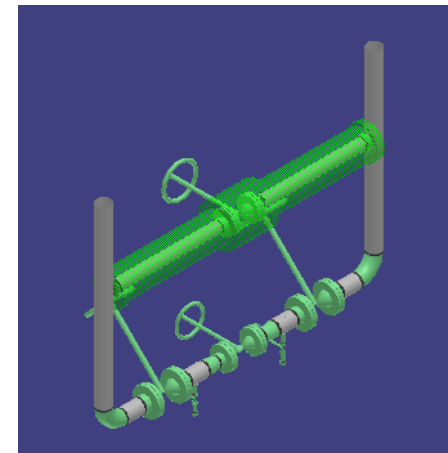
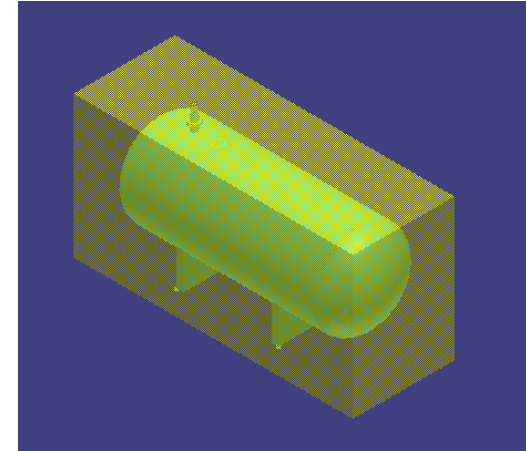
# Multiple Coordinate Systems

- Multiple coordinate systems available with ability to switch between them on demand for viewing and output



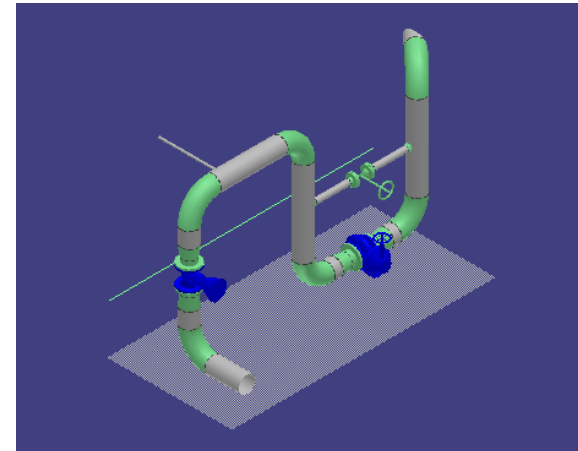
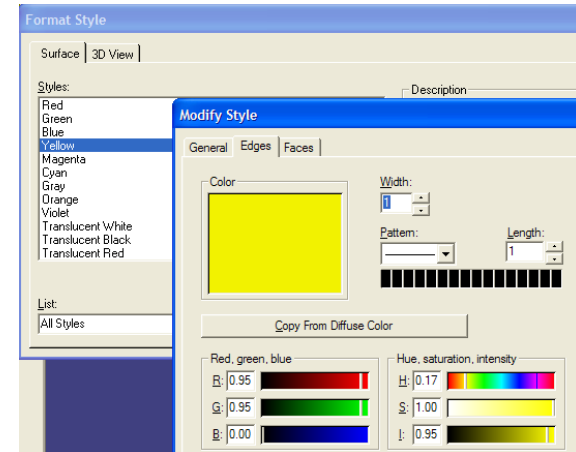
# Multiple Aspects

- Multiple aspects – visual representations for physical, insulation, operation, maintenance and reference with ability to turn them on and off selectively



# Styles and Colors

- Ability to set visible styles and colors for all objects – with the ability to define custom colors and set them by rule

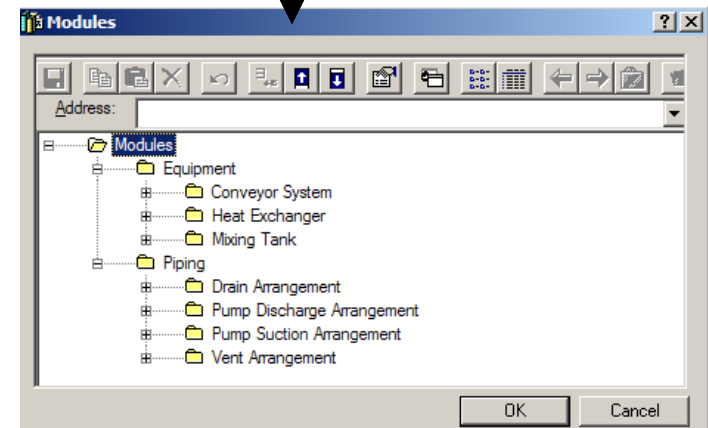
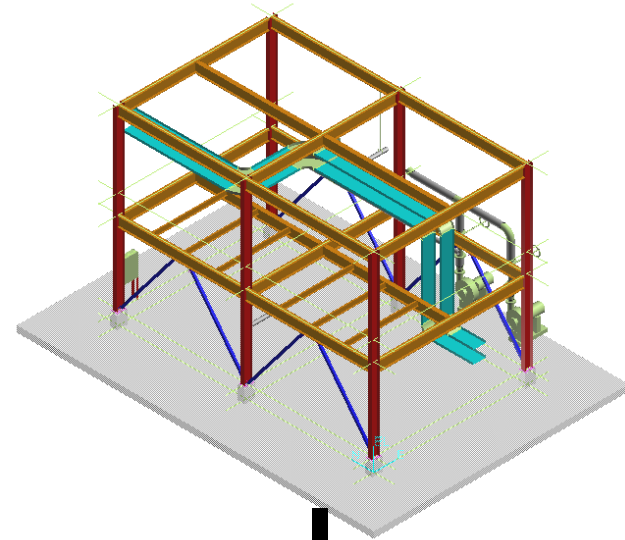


# Undo

- Undo function with a private undo list for each user

# Copy and paste

- Copy and paste to and from catalog



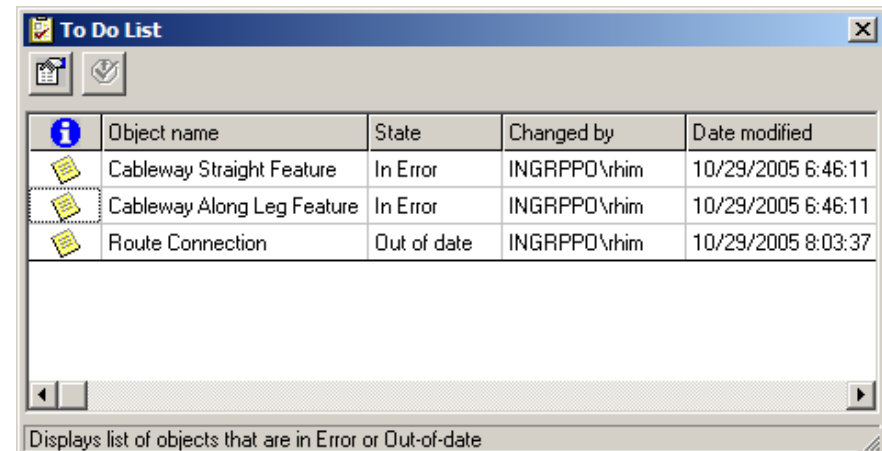
# Move and Rotate

- Move, rotate and mirror copy functions common UI for all tasks



# To-do list

- To-do list keeps track of required user actions reacting to changes from other users (and catalog changes) as well as warnings indicating design rules violations



The screenshot shows a 'To Do List' window with a title bar, a toolbar with a list icon and a refresh icon, and a table of items. The table has five columns: Object name, State, Changed by, and Date modified. There are three rows of data, each preceded by a yellow notepad icon. The first two rows are marked with a dashed border, indicating they are the primary items of concern. The third row is marked with a solid border. Below the table is a scroll bar and a status bar at the bottom.

	Object name	State	Changed by	Date modified
	Cableway Straight Feature	In Error	INGRPPD\rhim	10/29/2005 6:46:11
	Cableway Along Leg Feature	In Error	INGRPPD\rhim	10/29/2005 6:46:11
	Route Connection	Out of date	INGRPPD\rhim	10/29/2005 8:03:37

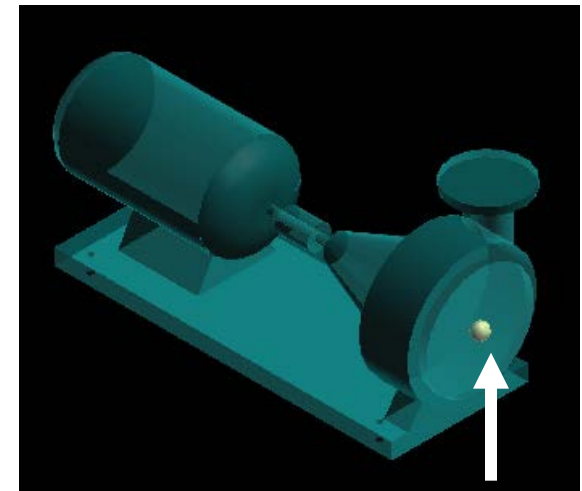
Displays list of objects that are in Error or Out-of-date

# Notes and Control Points

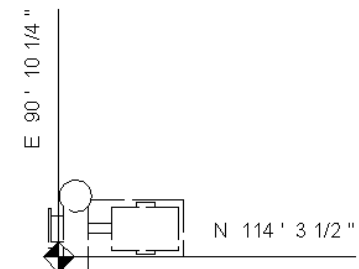
- Ability to insert notes and control points on all objects

# Control Points

- A 3D object representing a point in the model
- Drive label locations on orthographic drawings
- Control point location is user defined
- The position can be declared to be at a fixed global position or the positioning method can be associatively maintained.
- Control Point graphics is a sphere that does not support interference detection
- Control Point is displayed in Reference Geometry Aspect

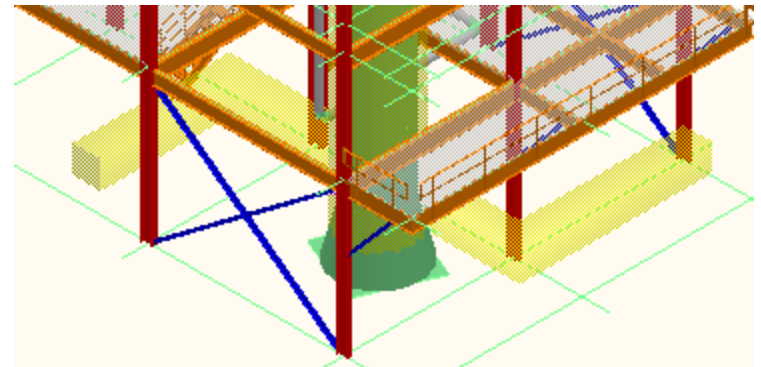
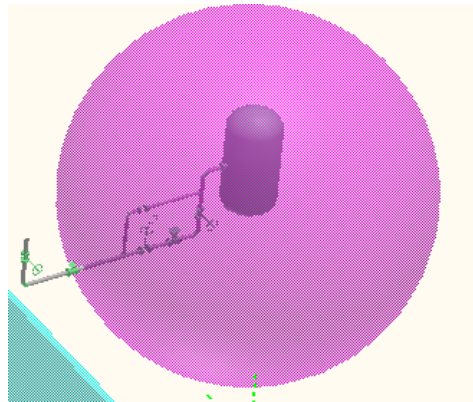
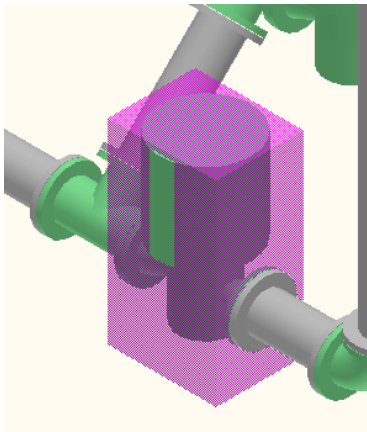


**Control  
Point**



# Space Management

- Ability to create spaces for areas, hazardous zones, interference volumes and associate them to other objects



# Naming Rules

- Naming rules allow unique rule based naming

