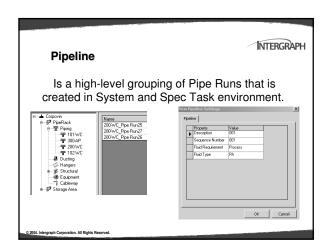
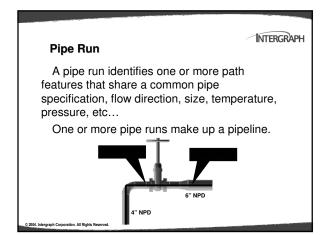
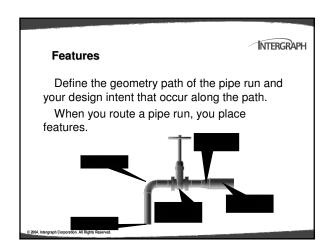
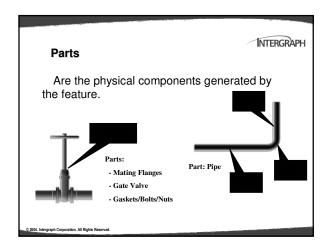
#### Process, Power and Marine Division Piping Task

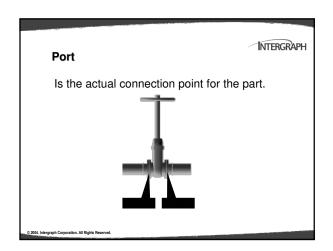


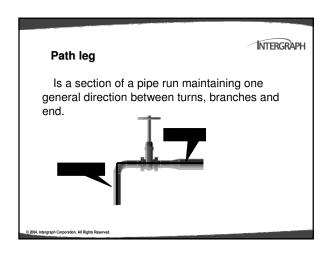


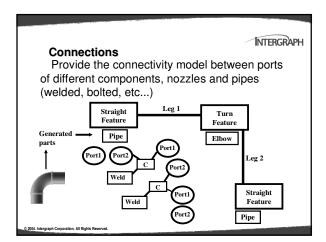




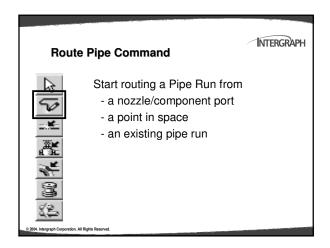


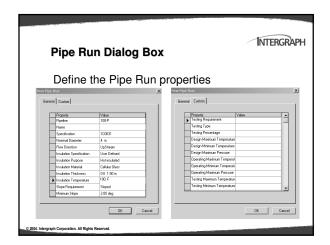


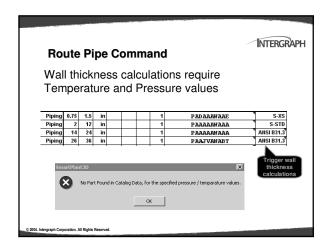


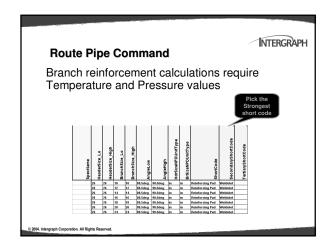


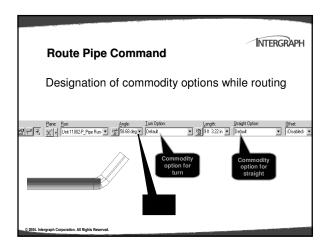
Piping Hierarchy	ÍNTERGRAPH
- Piping System { - Pipeline System - Pipe Run - Features - Parts/Componen - Ports - Connections	System and Spec Task
© 2004. Intergraph Corporation. All Rights Reserved.	



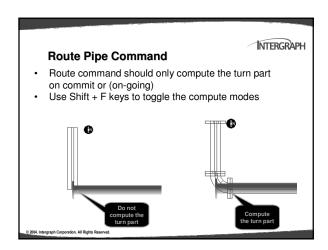


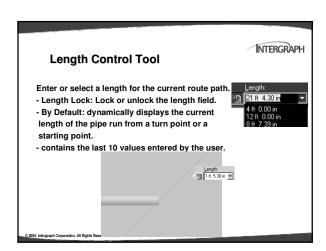


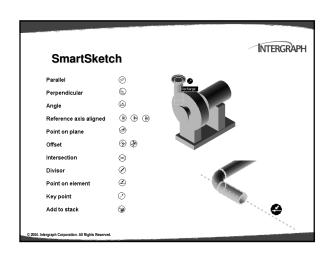


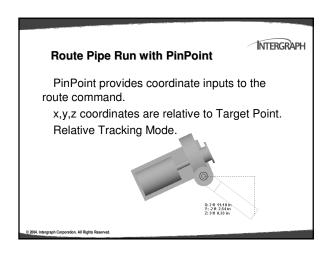


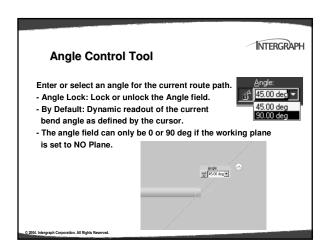
## Turn Type Option Displays the type of turn (Default, Elbow, Pipe Bend, or Miter). Default turn type: the system selects the type of turn as defined in the Ref Data (Default Change of Direction) Turn Type: Elbow(Default) Elbow(Default) FipeBend SP3D Piping can check pipe bends as they are modeled to ensure that they have adequate lengths for fabrication on an allocated bending machine.

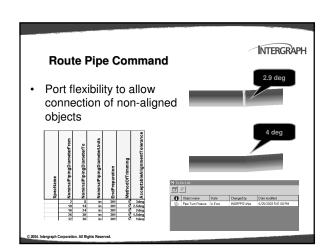


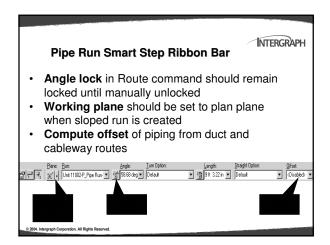


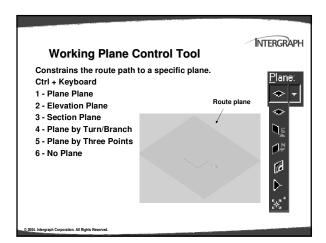


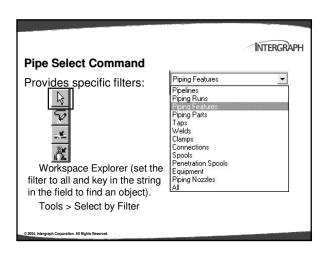






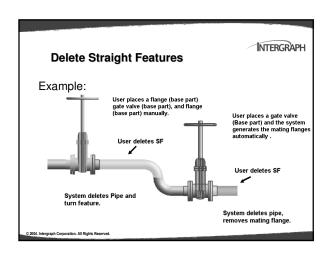


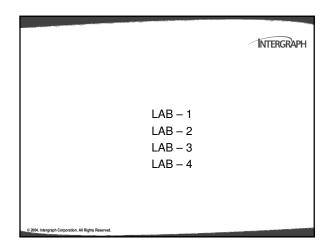


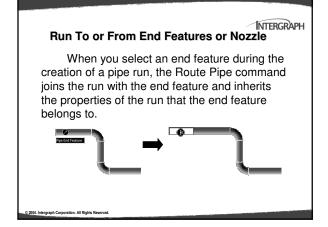


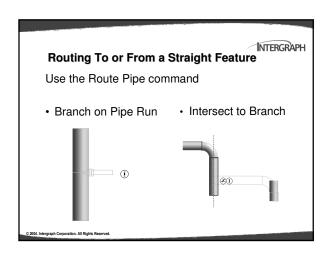
## Delete a Pipeline Deleting a pipeline deletes all pipe runs, features, and parts associated with that pipeline.

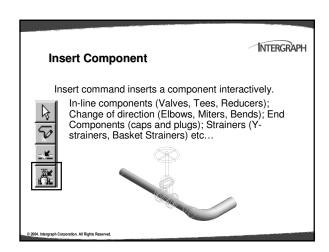
### Delete a Pipe Run Deleting the run deletes all features (and thereby all parts) belonging to the run. The software attempts to maintain the design integrity of the model by adjusting all previously connected features.

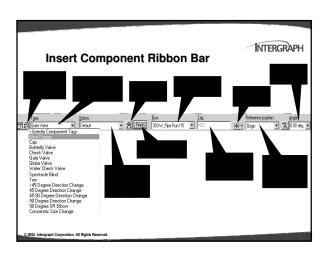




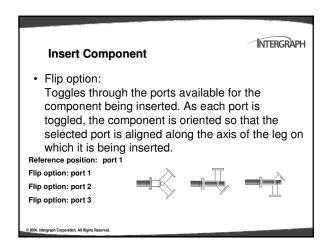


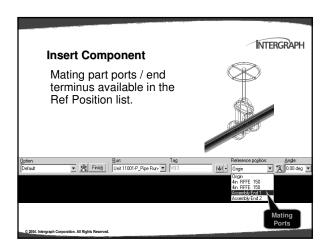


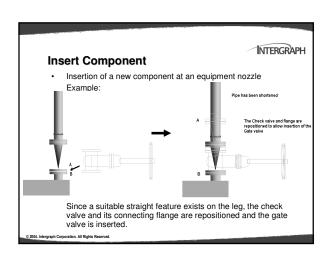


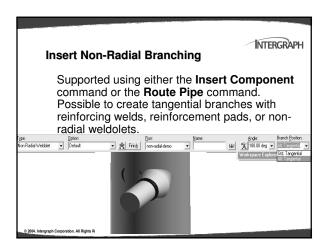


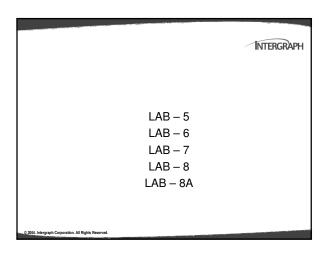
Insert Component	ÎNTERGRAPH
Reference Position option:     The system should slide the component path so that the select position (example) located at the insertion point.	_
Flip option: port 1 Reference position: port 1 Reference position: origin Reference position: port 2 or port 3	

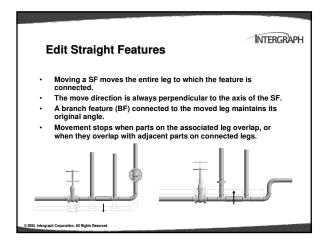


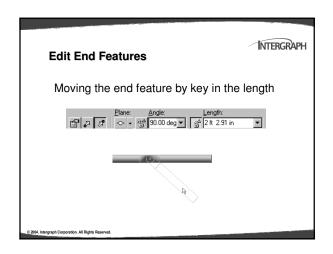


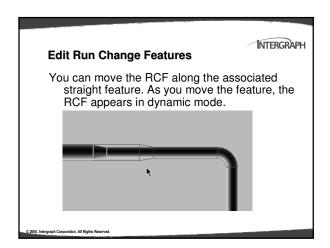


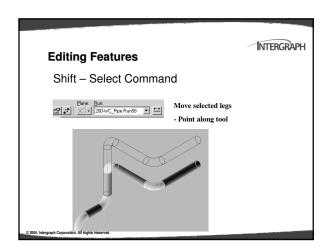


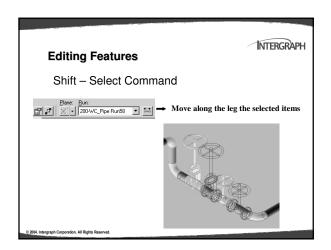


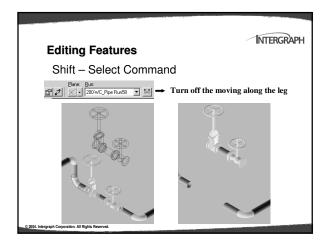


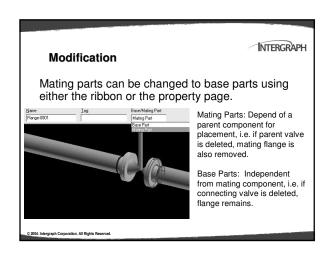


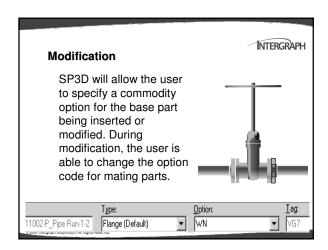




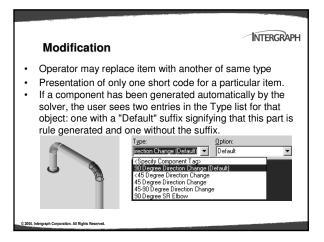


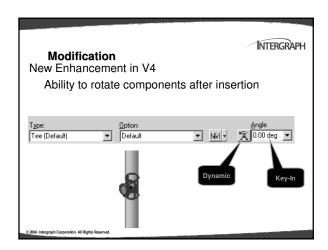


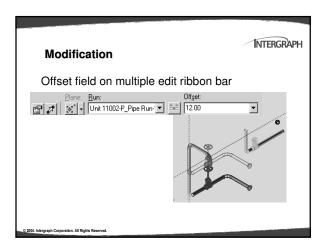


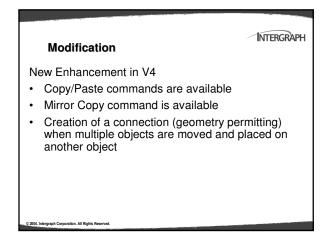


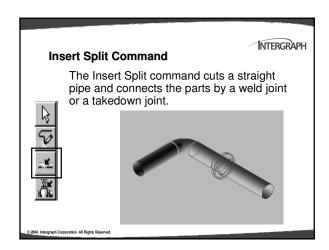
# Modification • Elegant solution to branch/turn angle modification if component is not valid • For Trimmable Elbows (eg 2-45 deg) if the angle is changed to any value in this range, the component is retained. Other than this range the solver replace the component with the suitable part (I.e default). • For NonTrimmable any change in angle will replace the part with the best suitable one.

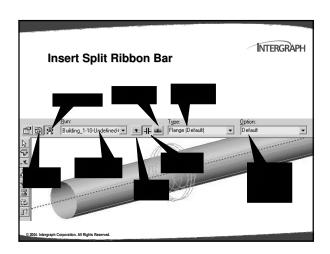


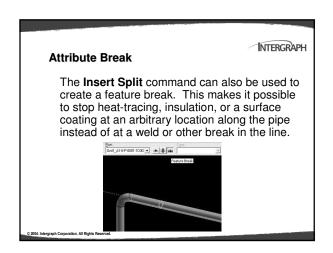




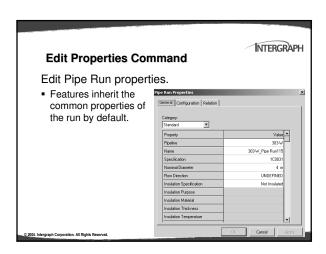


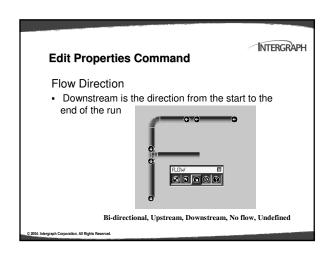


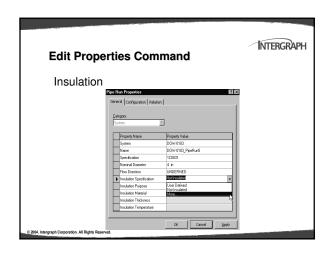


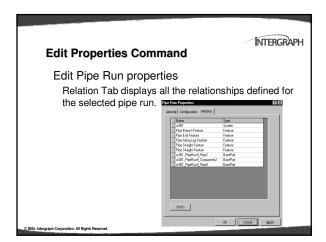


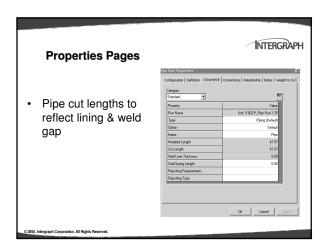
## Attribute Break Edit Pipe Run properties during modeling to create an attribute break. • When the run properties are changed, the corresponding feature properties are automatically changed as well. • When NPD is changed, reducers are selected from the spec to satisfy the NS change.

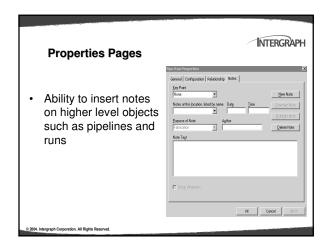


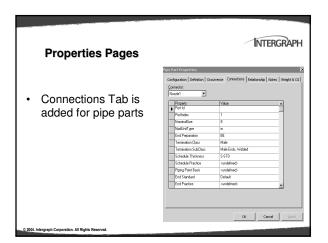


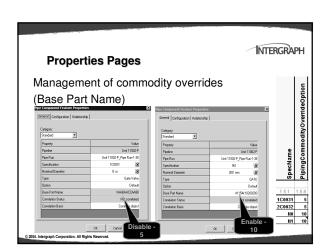


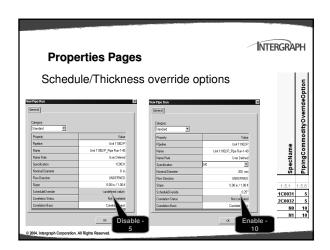


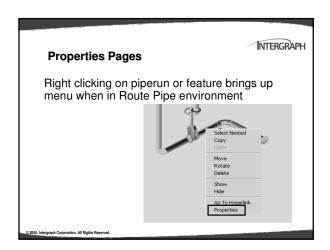


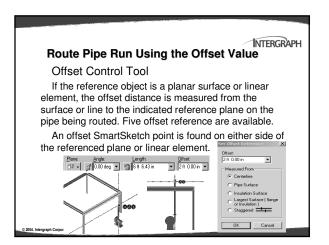


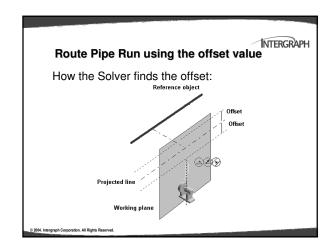


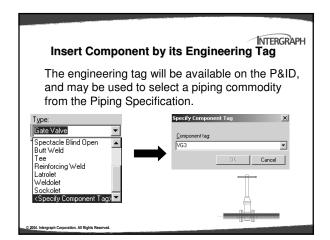












## We have two types of piping specialty/instrument Parts: Stock item: Stock items represent those piping items that are purchased from a manufacturer's catalog, where no real engineering is required other than selecting the correct size, material, etc. Custom-engineered item: custom engineered items are built items according to the process.

