Process, Power and Marine Division

SP3D Piping Reference Data

9-Interactive Spec Creation Interface



INTERGRAPH

Creating a Piping Spec in Catalog Task

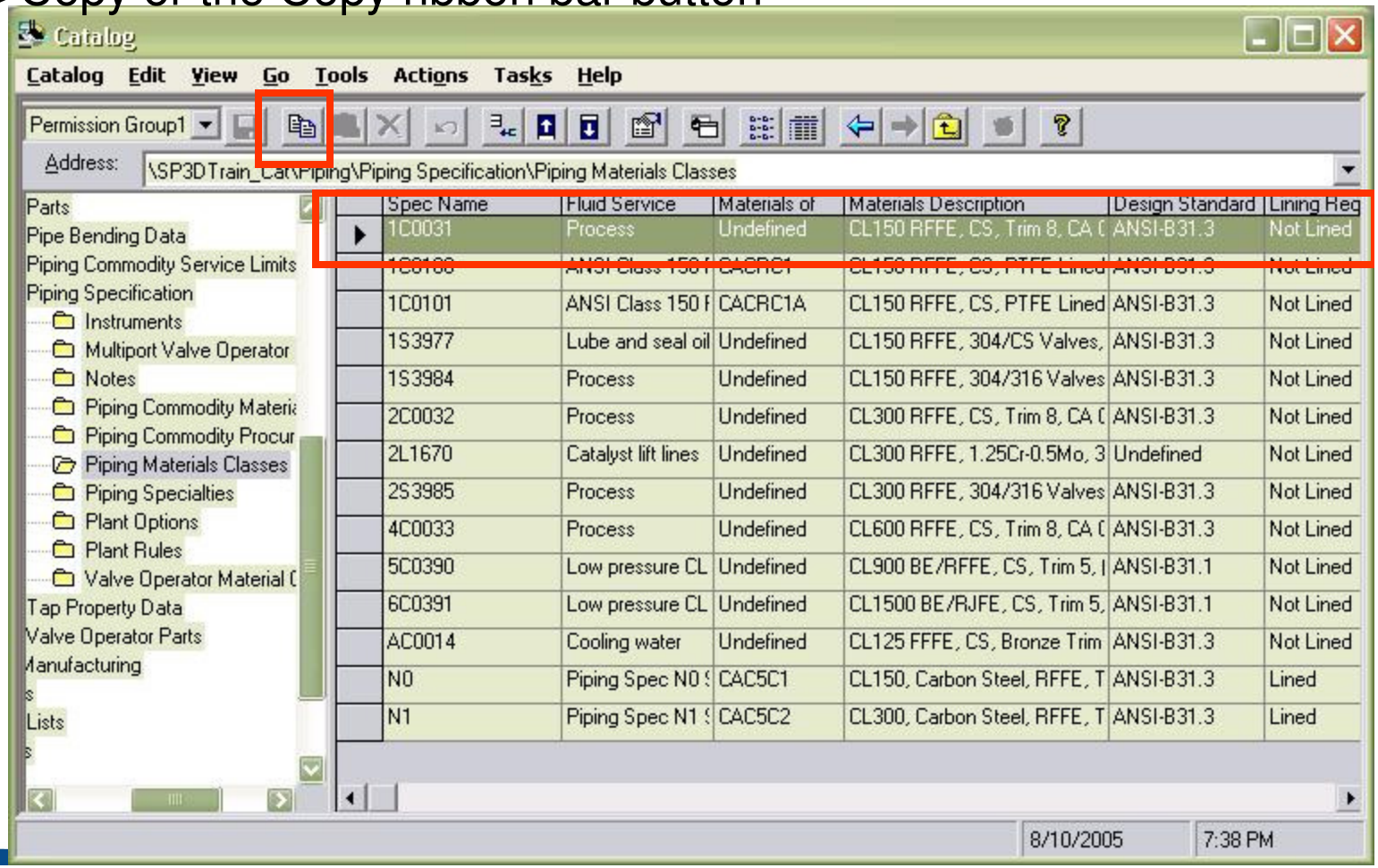
You can use the Catalog task to customize your piping specification reference data in order to create new piping specifications. To do so, the following workflow can be used, in order:

- Copy and Paste a working piping spec.
- Edit/Define new spec attributes like Name, Service, Matl Descr, etc.
- Edit/Define new spec's Rules
- Edit/Define Branch Table
- Edit/Define commodities in Piping Commodity Filter
- Edit/Define other Selection Filters as needed
- Verify consistency

Creating a Piping Spec in Catalog Task

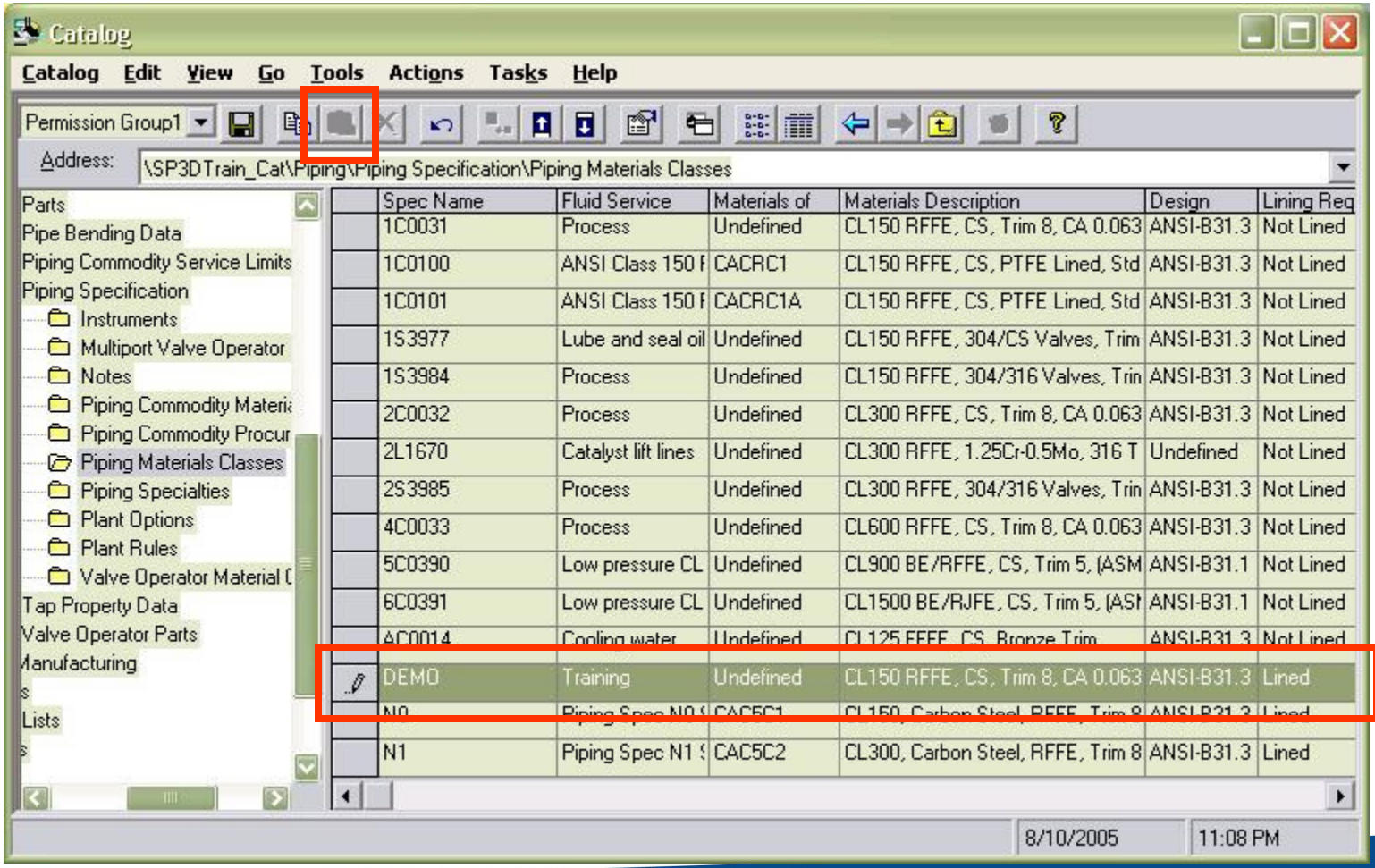
Example: Create piping spec “demo” from copy of training spec:

- Select a spec in the catalog tree view, e.g. 1C0031
- Use Edit>Copy or the Copy ribbon bar button



Creating a Piping Spec in Catalog Task

- Use Edit>Paste or the Paste ribbon bar button
- Edit the pasted spec name and properties in the grid view

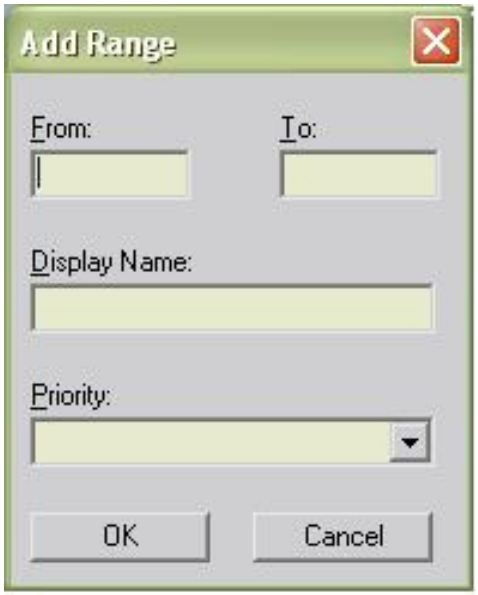


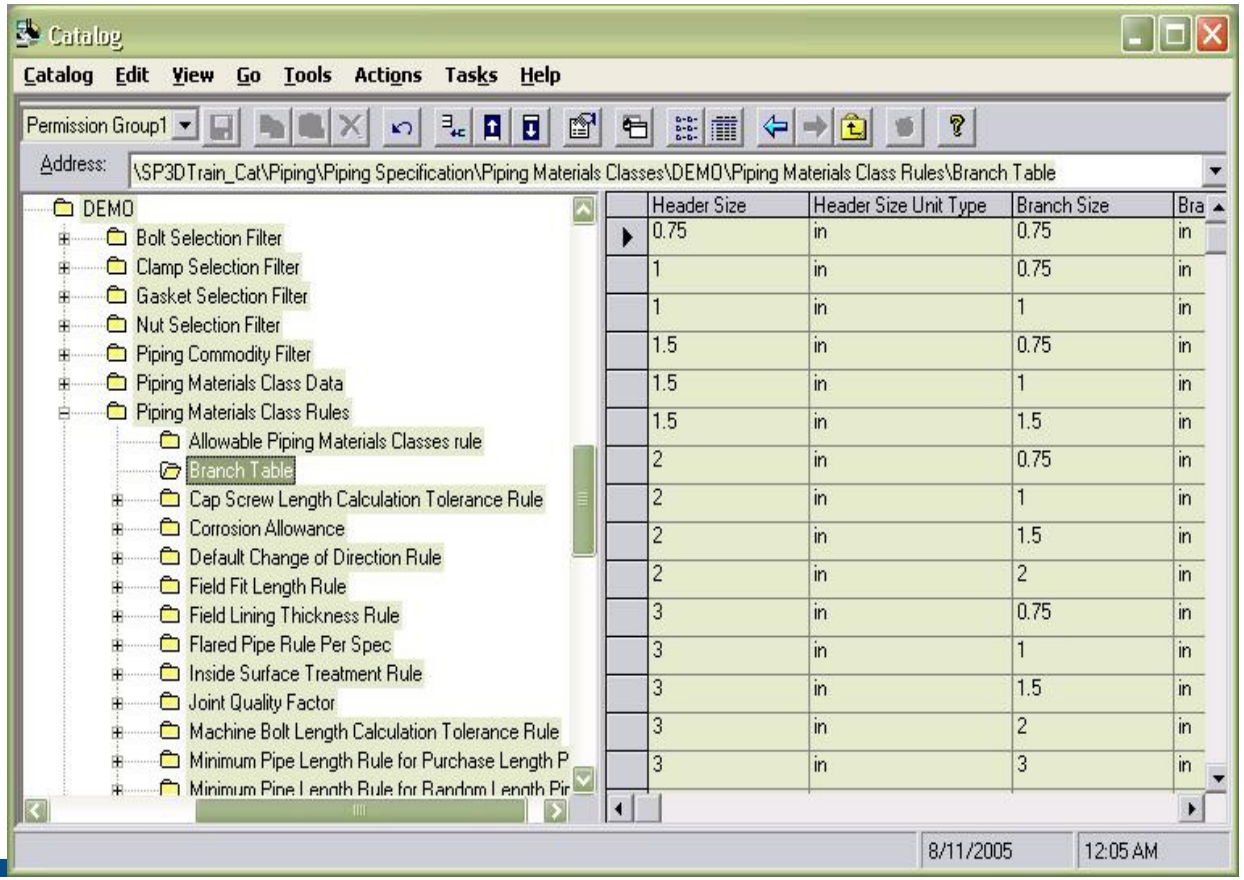
Creating a Piping Spec in Catalog Task

- In the catalog tree view open the new piping material class node, and then open the **Piping Materials Class Rules** node
- In the **Piping Materials Class Rules** node, select **Permissible Nominal Piping Diameters Rule** to review or define allowable NPD's for the new spec. To add, use **Edit>Add Row** to enter new values
- Edit/define other rules as needed

Creating a Piping Spec in Catalog Task

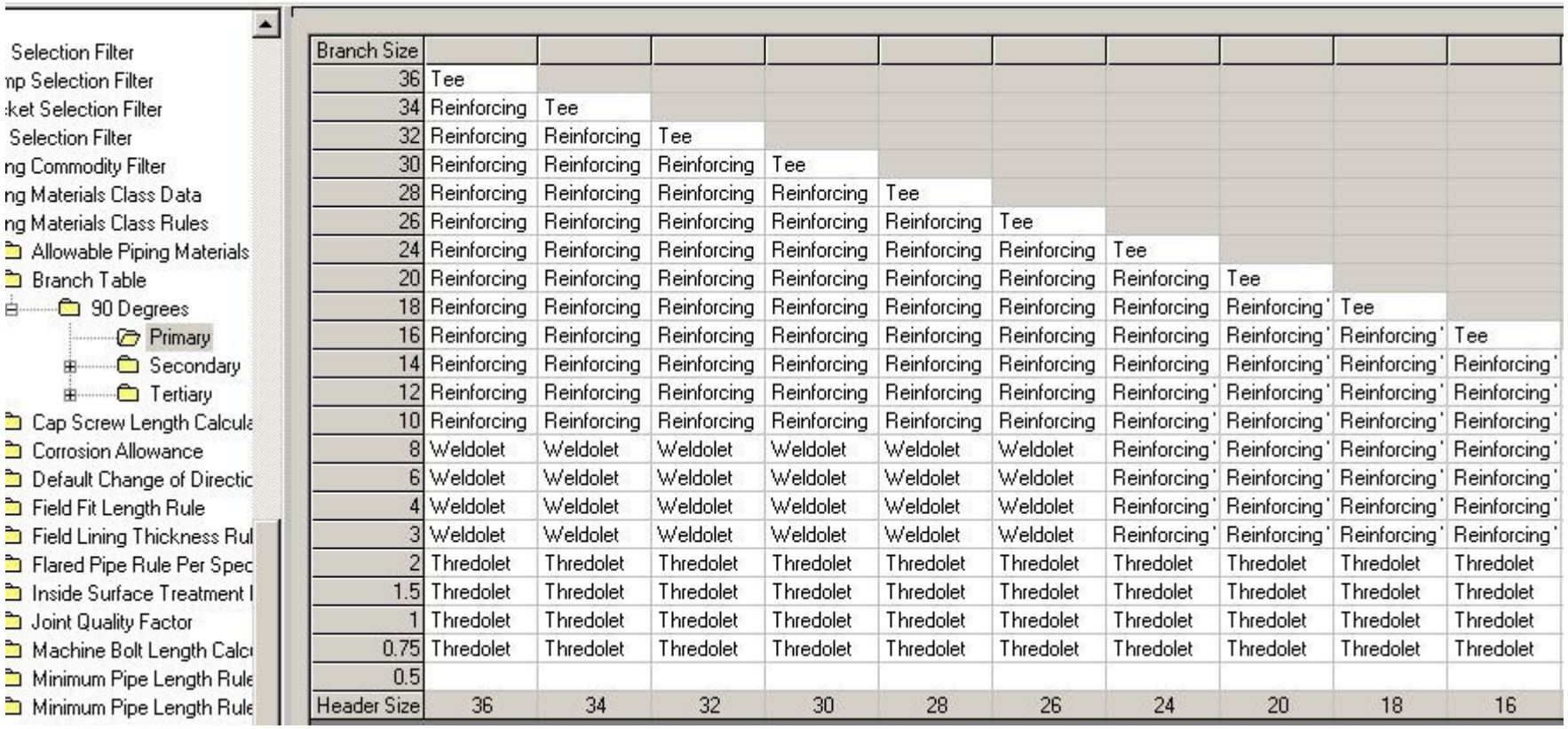
- Select **Branch Table** and enter/edit branch table values
- To create a paper spec style grid view of the Branch Table, select Actions>Add Range





Creating a Piping Spec in Catalog Task

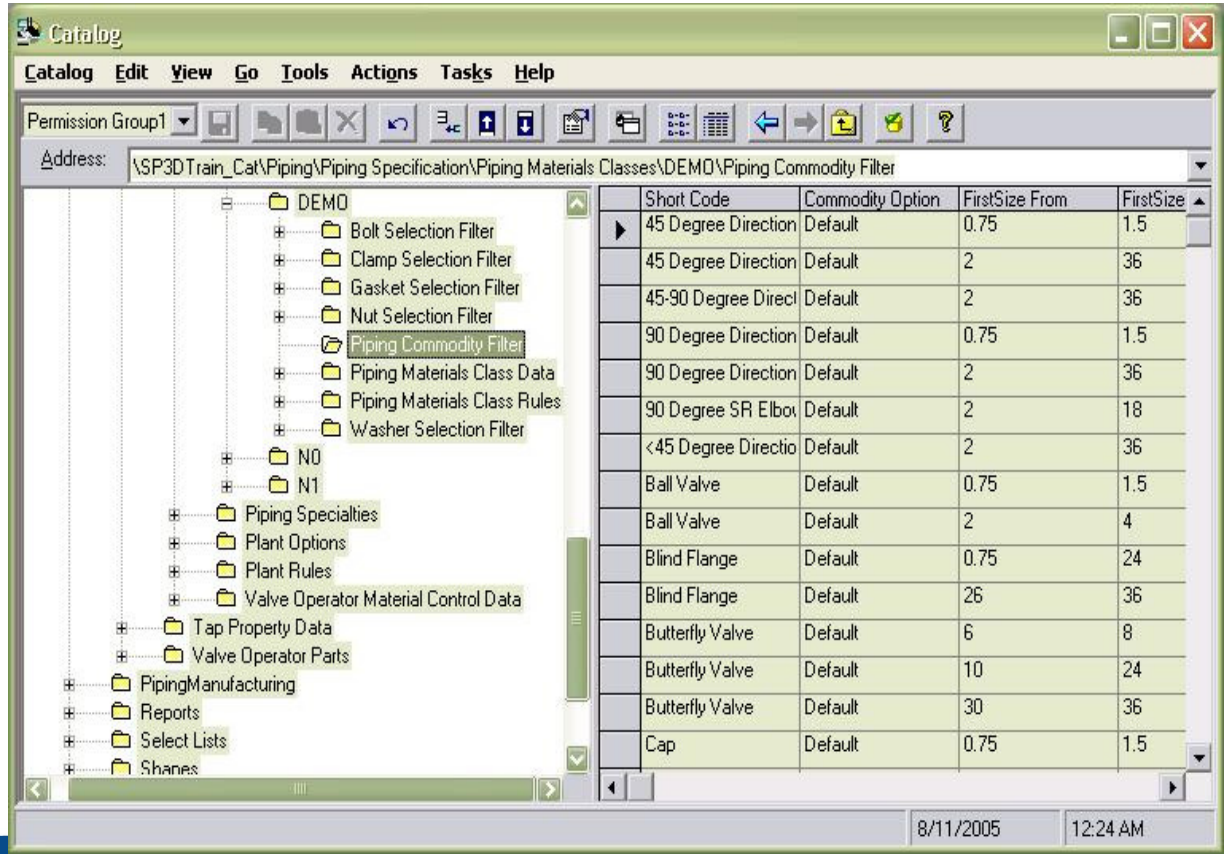
- Enter the valid range values for existing data, e.g. from 89.5 to 90.5
- Provide a name for the range of values, e.g. “90 Degrees”
- Select the branch priority level, “Primary”, “Secondary” or “Tertiary”



Branch Size										
36	Tee									
34	Reinforcing	Tee								
32	Reinforcing	Reinforcing	Tee							
30	Reinforcing	Reinforcing	Reinforcing	Tee						
28	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Tee					
26	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Tee				
24	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Tee			
20	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Tee		
18	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing'	Tee	
16	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing'	Reinforcing'	Tee
14	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing'	Reinforcing'	Reinforcing'
12	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing'	Reinforcing'	Reinforcing'	Reinforcing'
10	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing	Reinforcing'	Reinforcing'	Reinforcing'	Reinforcing'
8	Weldolet	Weldolet	Weldolet	Weldolet	Weldolet	Weldolet	Reinforcing'	Reinforcing'	Reinforcing'	Reinforcing'
6	Weldolet	Weldolet	Weldolet	Weldolet	Weldolet	Weldolet	Reinforcing'	Reinforcing'	Reinforcing'	Reinforcing'
4	Weldolet	Weldolet	Weldolet	Weldolet	Weldolet	Weldolet	Reinforcing'	Reinforcing'	Reinforcing'	Reinforcing'
3	Weldolet	Weldolet	Weldolet	Weldolet	Weldolet	Weldolet	Reinforcing'	Reinforcing'	Reinforcing'	Reinforcing'
2	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet
1.5	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet
1	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet
0.75	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet	Thredolet
0.5										
Header Size	36	34	32	30	28	26	24	20	18	16

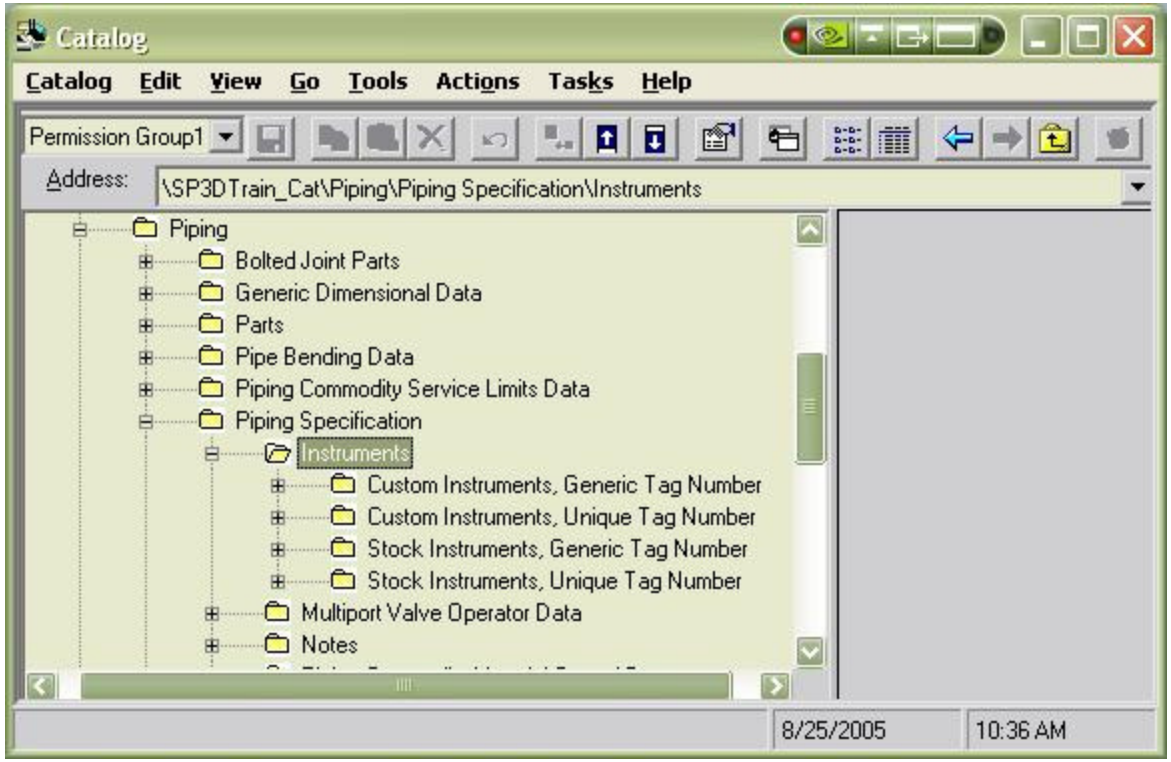
Creating a Piping Spec in Catalog Task

- Open the **Piping Commodity Filter** node for the new piping specification and define/revise spec items
- If the short code you need does not appear in the **Short Code** list, you can create a new short code with the **Short Code** tab on the **Options** dialog box.
- Select and define spec data for other **Selection Filters** as needed.
- Use **Tools > Verify Consistency** to check for errors.



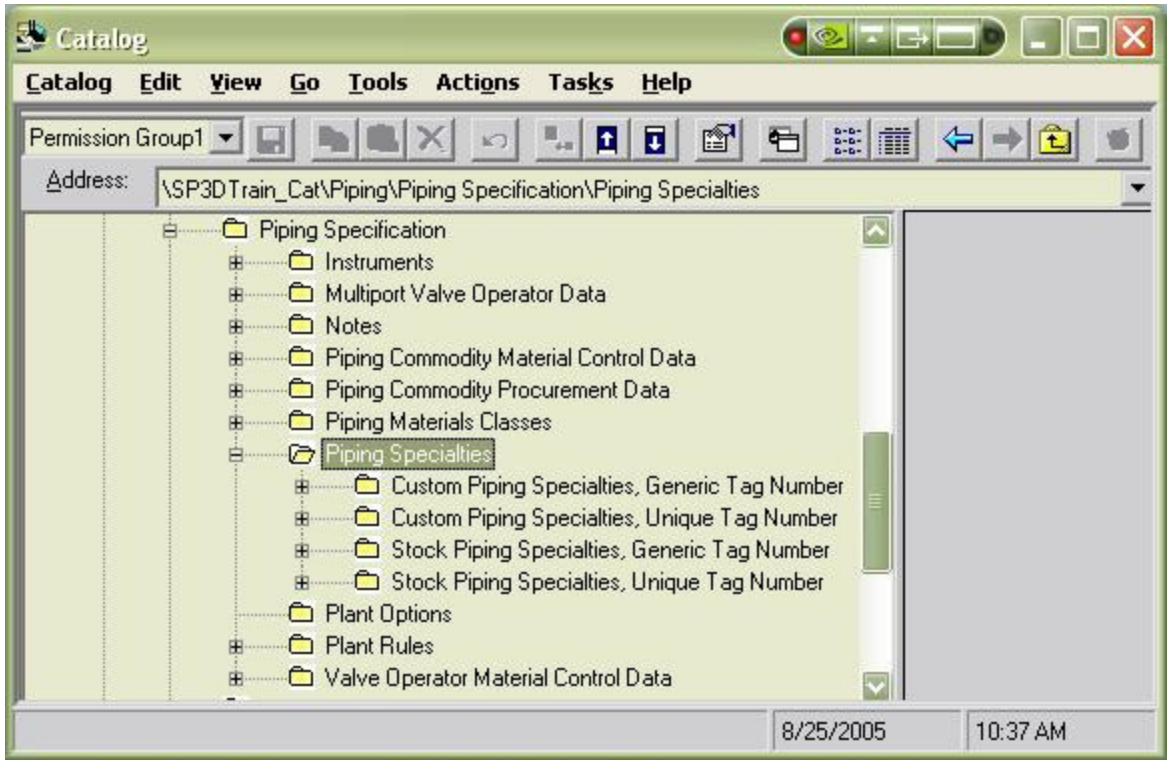
Creating Instruments in Catalog Task

- Open the **Piping Specifications>Instruments** node
- Enter Custom or Stock instruments
- Enter Generic or Unique Tag instruments



Creating Specialty Items in Catalog Task

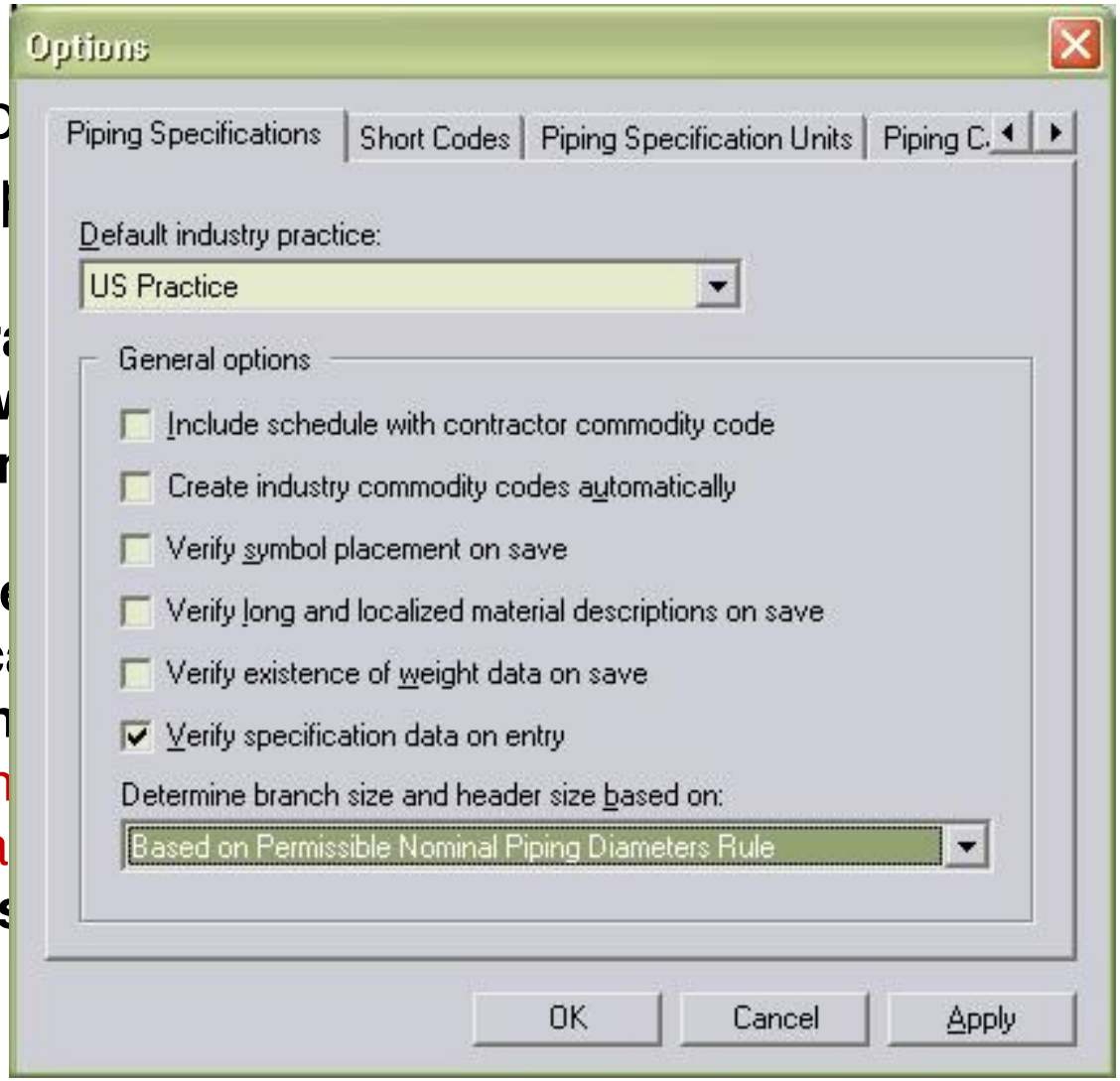
- Open the **Piping Specifications>Piping Specialties** node
- Select from Custom or Stock specialties
- Select from Generic or Unique Tag specialties



The Options Dialog Box

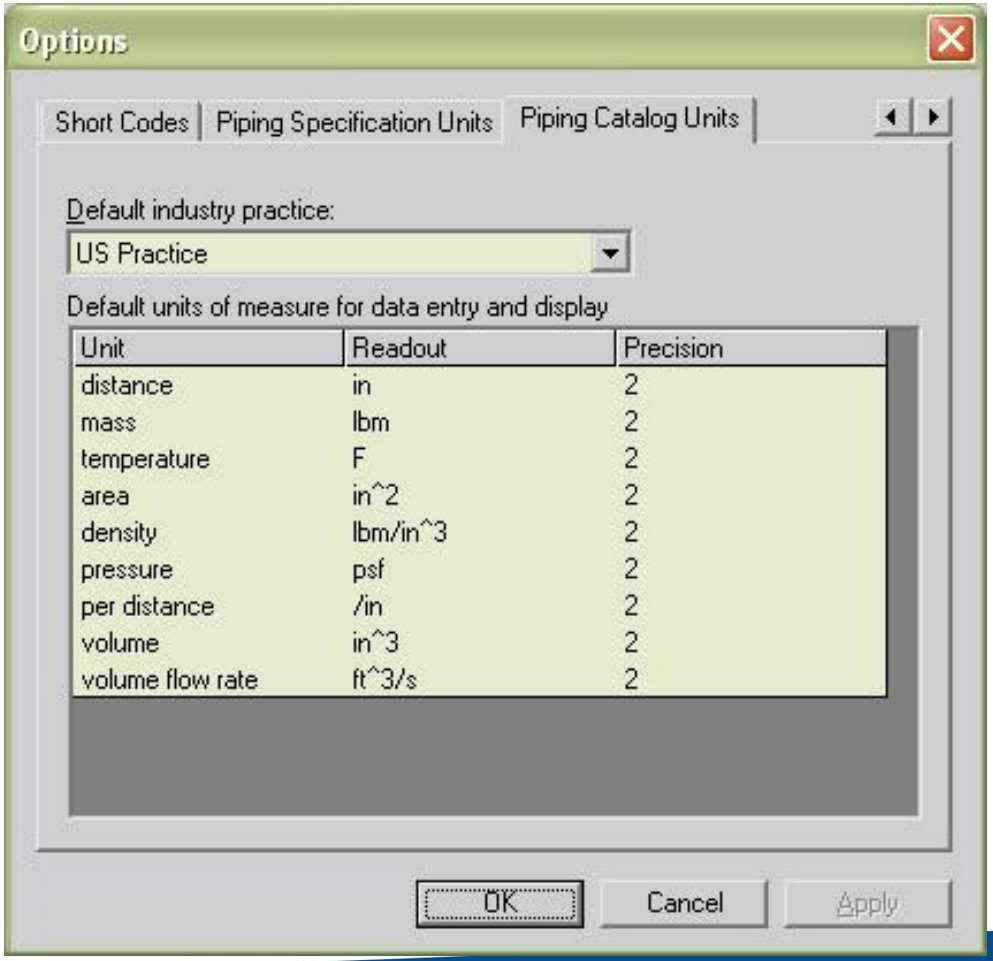
You can use the Pip
Dialog Box during sp

- **Default industry pra**
- **Include schedule w**
- **Create industry cor**
- **Verify existence of**
- **Verify symbol place**
- **Verify long and loca**
- **Verify specification**
  option is checked, th
  incomplete specifica
- **Determine branch s**



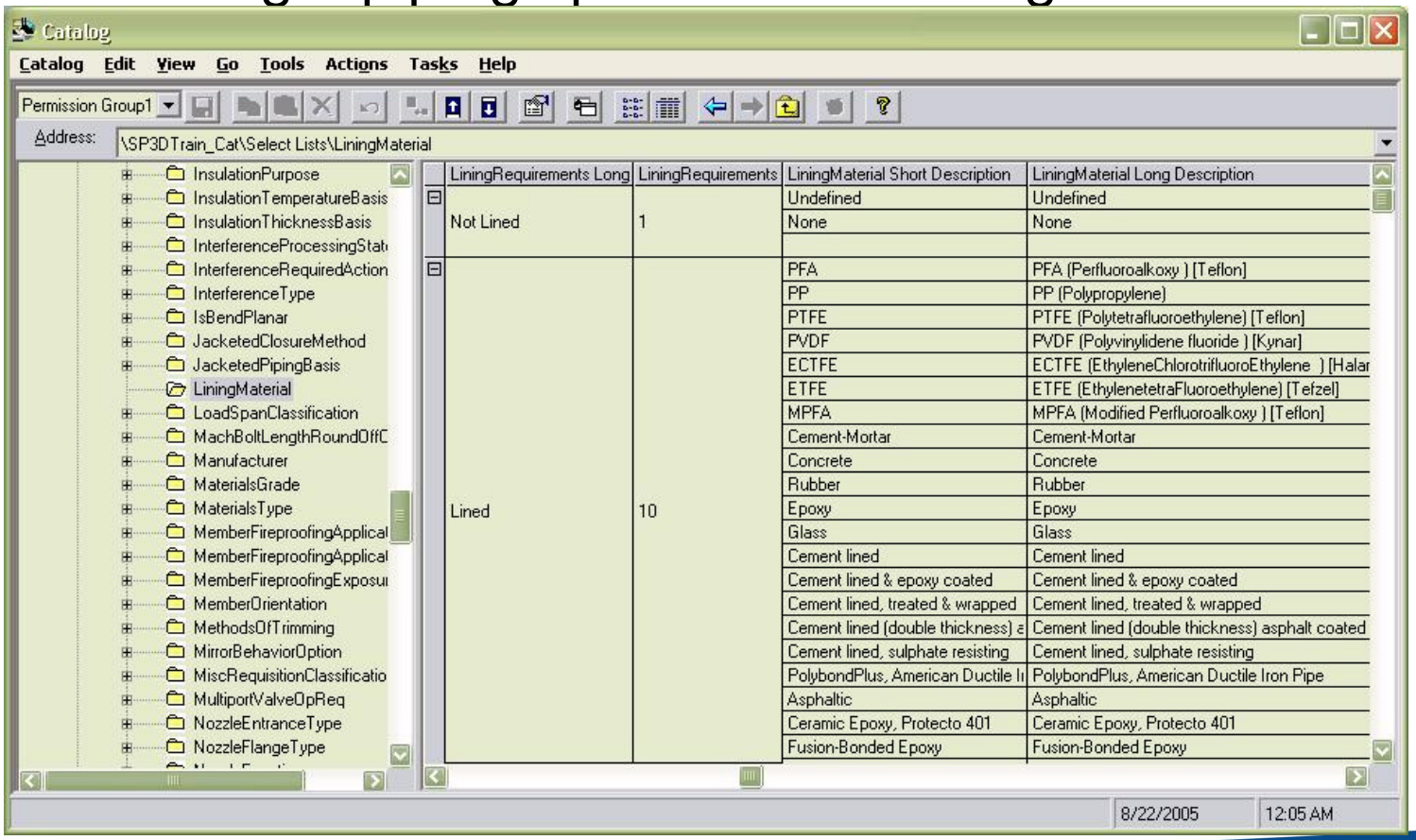
The Options Dialog Box

You can also change Piping Spec and Catalog units from the Options Dialog Box.



The Select List (Standard Notes)

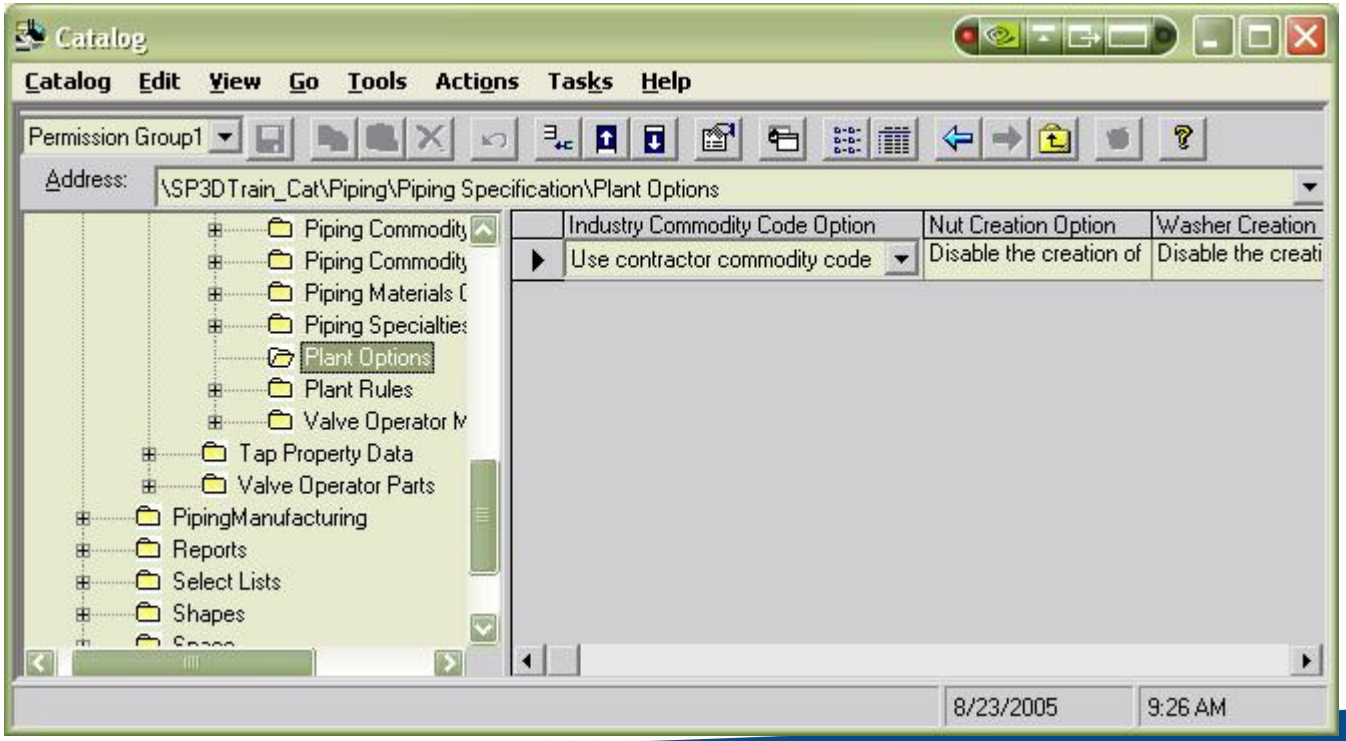
Standard Notes and values can be created and edited while creating a piping spec in the Catalog task.



Plant Options

Use the Plant Options node in the Catalog tree view to define overall rules for piping specifications.

The Plant Options node in the Catalog task defines the same rules as does the “Default Project Options” sheet in the Piping Specification.xls workbook.



Creating a Piping Spec in Catalog Task

- NOTES:

- 1. When working with piping specification reference data, try to start with an existing specification that resembles the one you need to create.
- 2. Intergraph PPM recommends that you create a separate plant specifically for testing specs before introducing changes into a working project.