

# Process, Power and Marine Division

SP3D Piping Reference Data

*9-Interactive Spec Creation Interface*



 **INTERGRAPH**

## Creating a Piping Spec in Catalog Task

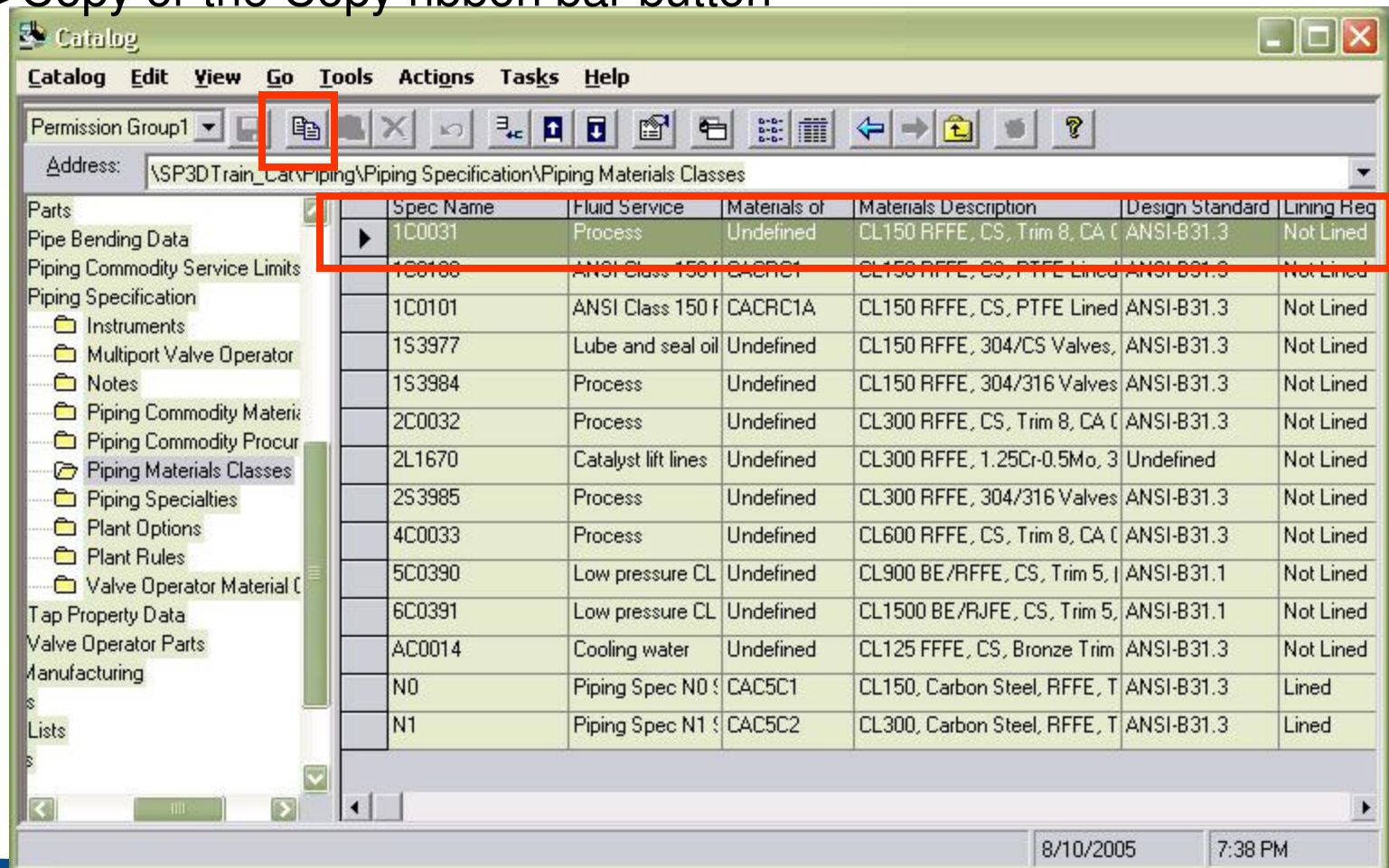
You can use the Catalog task to customize your piping specification reference data in order to create new piping specifications. To do so, the following workflow can be used, in order:

- 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

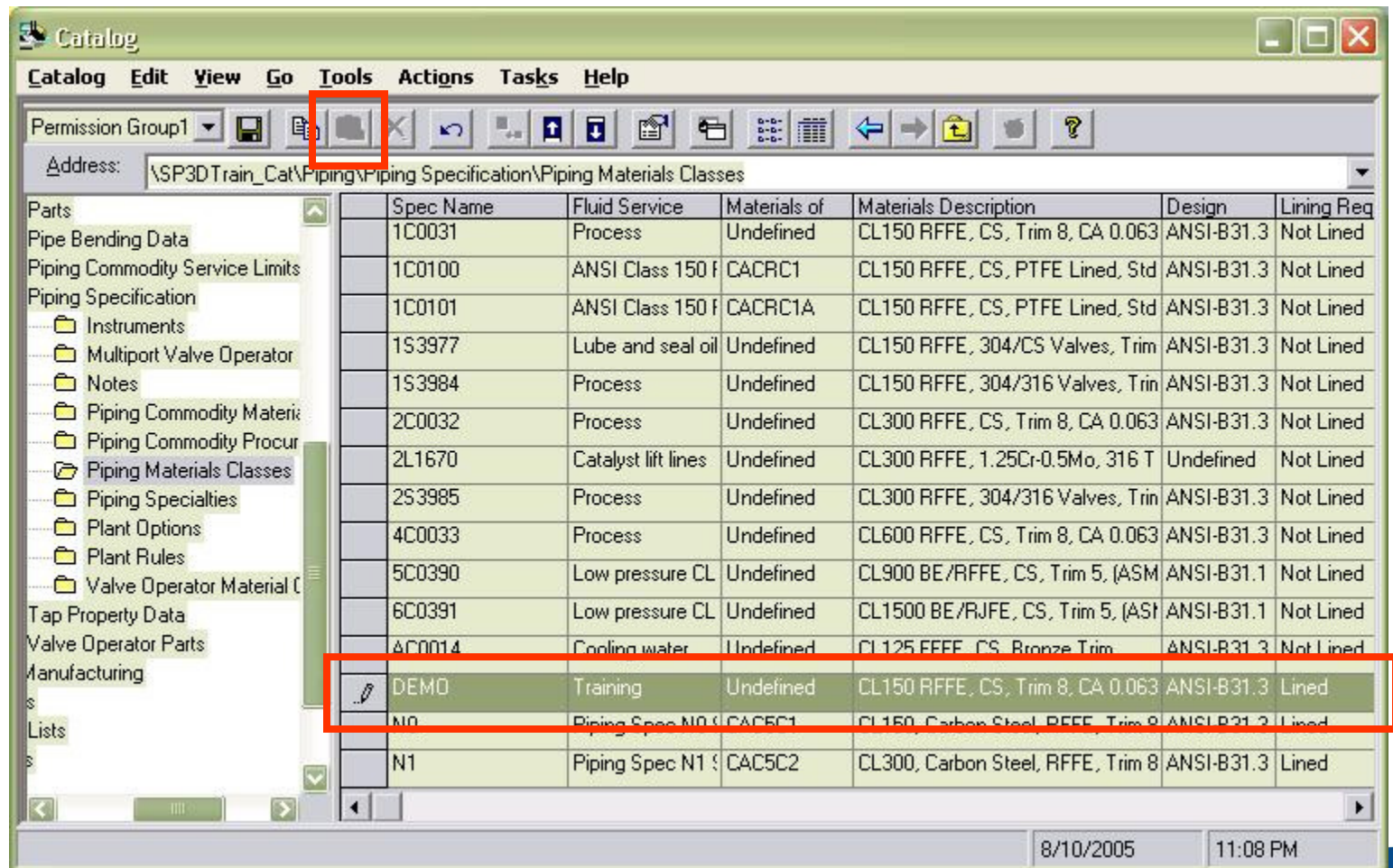
### Example: Create piping spec “demo” from copy of training spec:

- 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



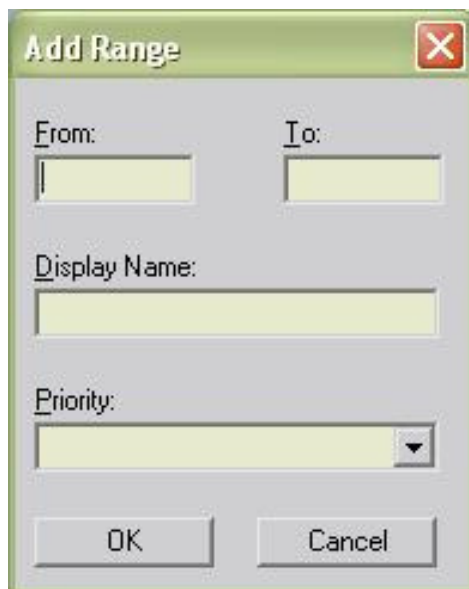


## Creating a Piping Spec in Catalog Task

- 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



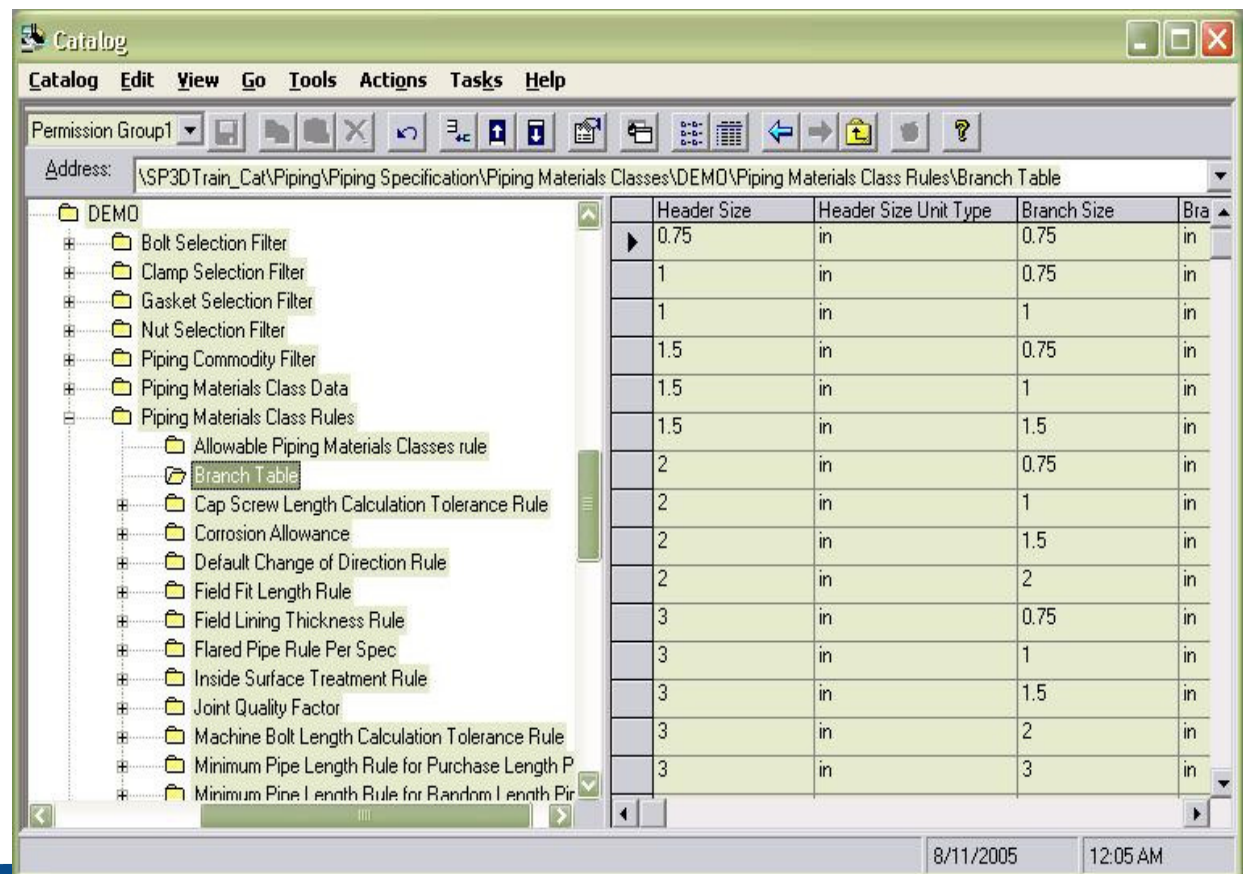
**Add Range**

From:  To:

Display Name:

Priority:

OK Cancel



**Catalog**

Permission Group1

Address: \SP3DTrain\_Cat\Piping\Piping Specification\Piping Materials Classes\DEMO\Piping Materials Class Rules\Branch Table

Header Size	Header Size Unit Type	Branch Size	Bra
0.75	in	0.75	in
1	in	0.75	in
1	in	1	in
1.5	in	0.75	in
1.5	in	1	in
1.5	in	1.5	in
2	in	0.75	in
2	in	1	in
2	in	1.5	in
2	in	2	in
3	in	0.75	in
3	in	1	in
3	in	1.5	in
3	in	2	in
3	in	3	in

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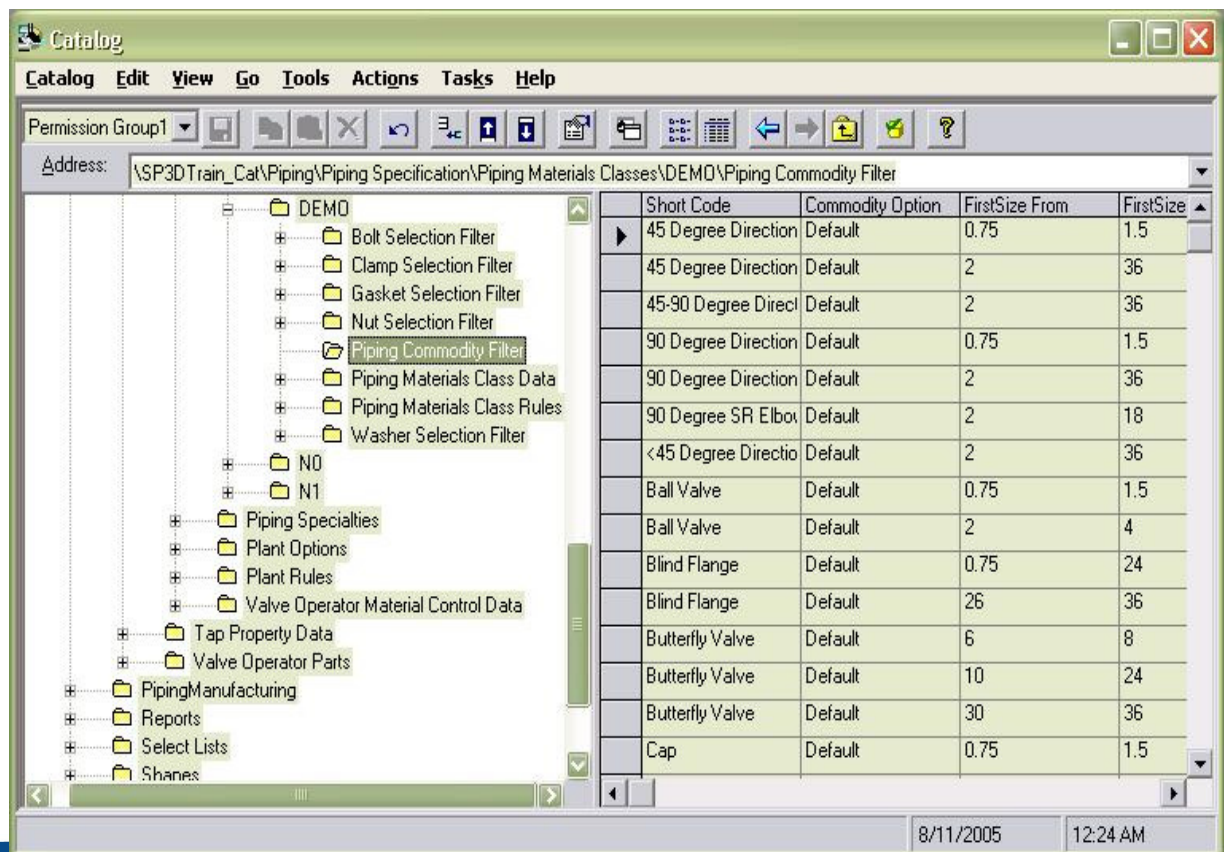
## Creating a Piping Spec in Catalog Task

- 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”

Selection Filter										
mp Selection Filter										
cket Selection Filter										
Selection Filter										
ng Commodity Filter										
ng Materials Class Data										
ng Materials Class Rules										
Allowable Piping Materials										
Branch Table										
90 Degrees										
Primary										
Secondary										
Tertiary										
Cap Screw Length Calcul										
Corrosion Allowance										
Default Change of Directi										
Field Fit Length Rule										
Field Lining Thickness Ru										
Flared Pipe Rule Per Spec										
Inside Surface Treatment I										
Joint Quality Factor										
Machine Bolt Length Calcu										
Minimum Pipe Length Rule										
Minimum Pipe Length Rule										
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 Tee									
12	Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Tee									
10	Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Reinforcing Tee									
8	Weldolet Weldolet Weldolet Weldolet Weldolet Weldolet Weldolet Reinforcing Reinforcing Reinforcing Reinforcing									
6	Weldolet Weldolet Weldolet Weldolet Weldolet Weldolet Weldolet Reinforcing Reinforcing Reinforcing Reinforcing									
4	Weldolet Weldolet Weldolet Weldolet Weldolet Weldolet Weldolet Reinforcing Reinforcing Reinforcing Reinforcing									
3	Weldolet Weldolet Weldolet Weldolet Weldolet Weldolet Weldolet Reinforcing Reinforcing Reinforcing Reinforcing									
2	Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet									
1.5	Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet									
1	Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet Thredolet									
0.75	Thredolet 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

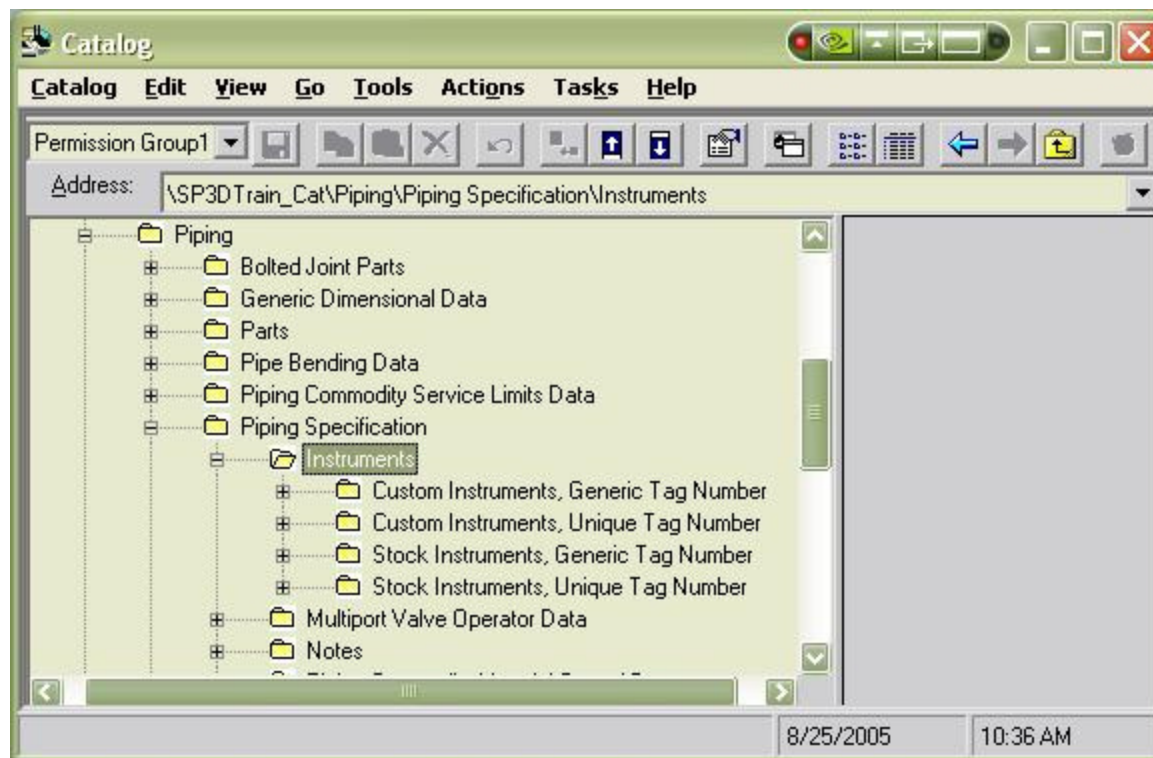
- Open the **Piping Commodity Filter** node for the new piping specification and define/revise spec items
- If the short code you need does not appear in the **Short Code** list, you can create a new short code with the **Short Code** tab on the **Options** dialog box.
- Select and define spec data for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





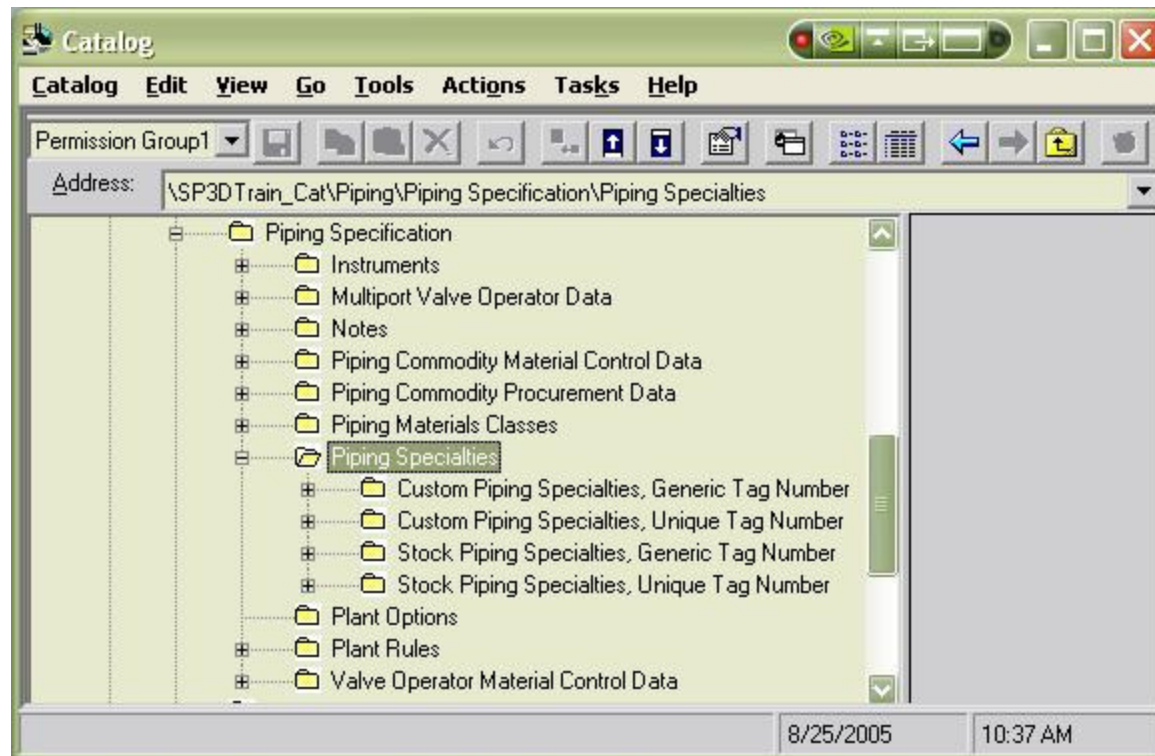
## Creating Instruments in Catalog Task

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



## Creating Specialty Items in Catalog Task

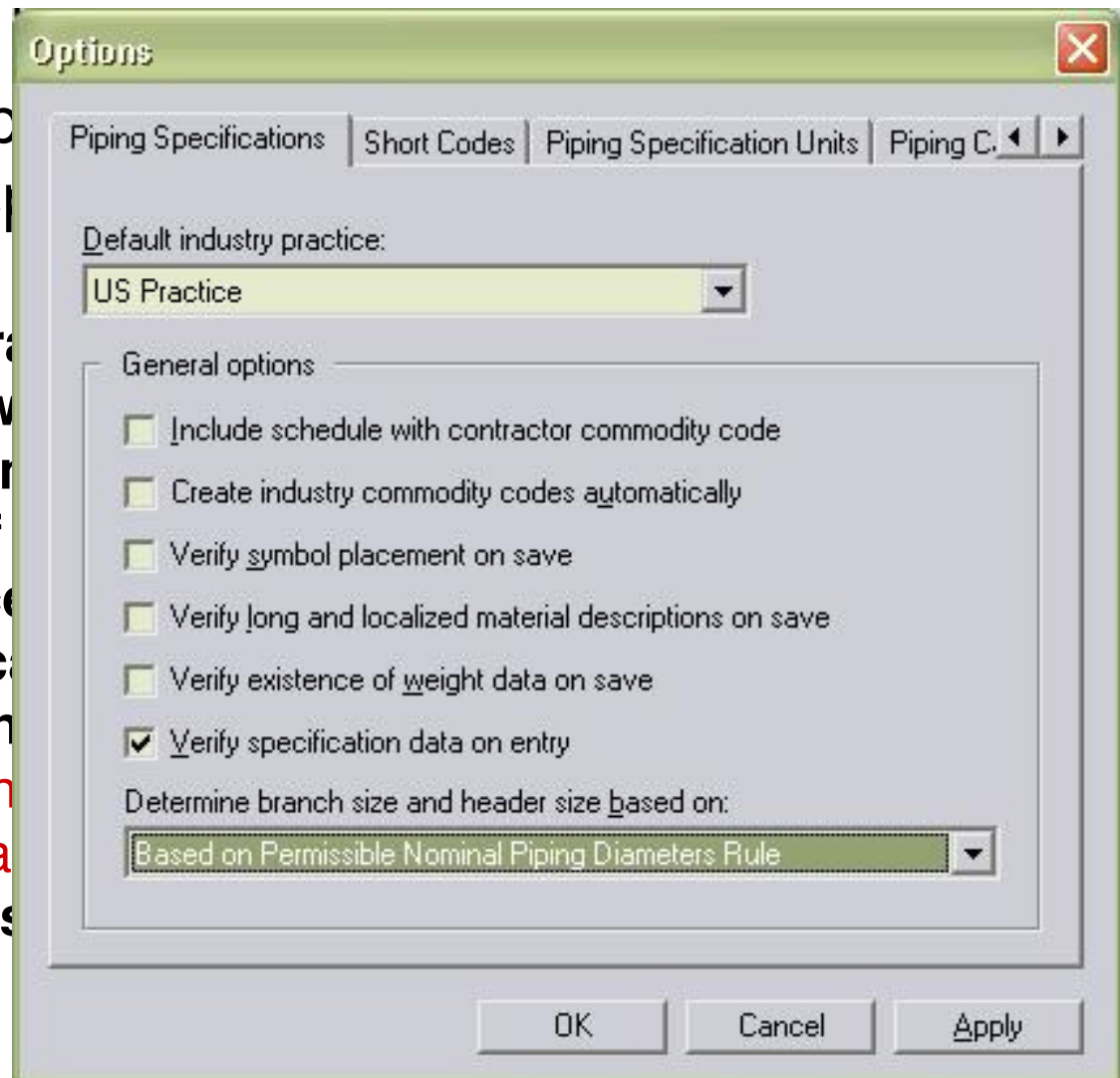
- Open the **Piping Specifications>Piping Specialties** node
- Select from Custom or Stock specialties
- Select from Generic or Unique Tag specialties



## The Options Dialog Box

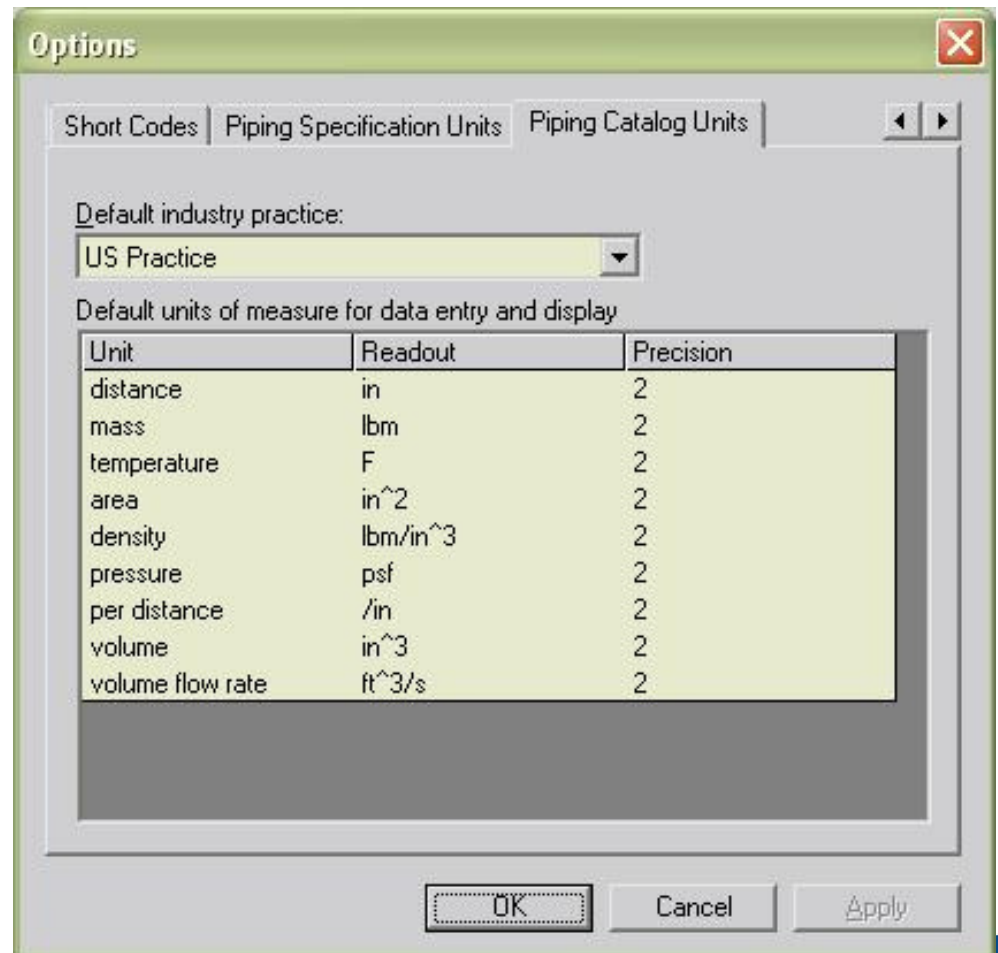
You can use the Piping Specifications Dialog Box during specification.

- **Default industry practice**
- **Include schedule with contractor commodity code**
- **Create industry commodity codes automatically**
- **Verify existence of symbol placement on save**
- **Verify symbol placement on save**
- **Verify long and localized material descriptions on save**
- **Verify existence of weight data on save**
- **Verify specification data on entry** option is checked, the incomplete specification
- **Determine branch size and header size based on:**



## The Options Dialog Box

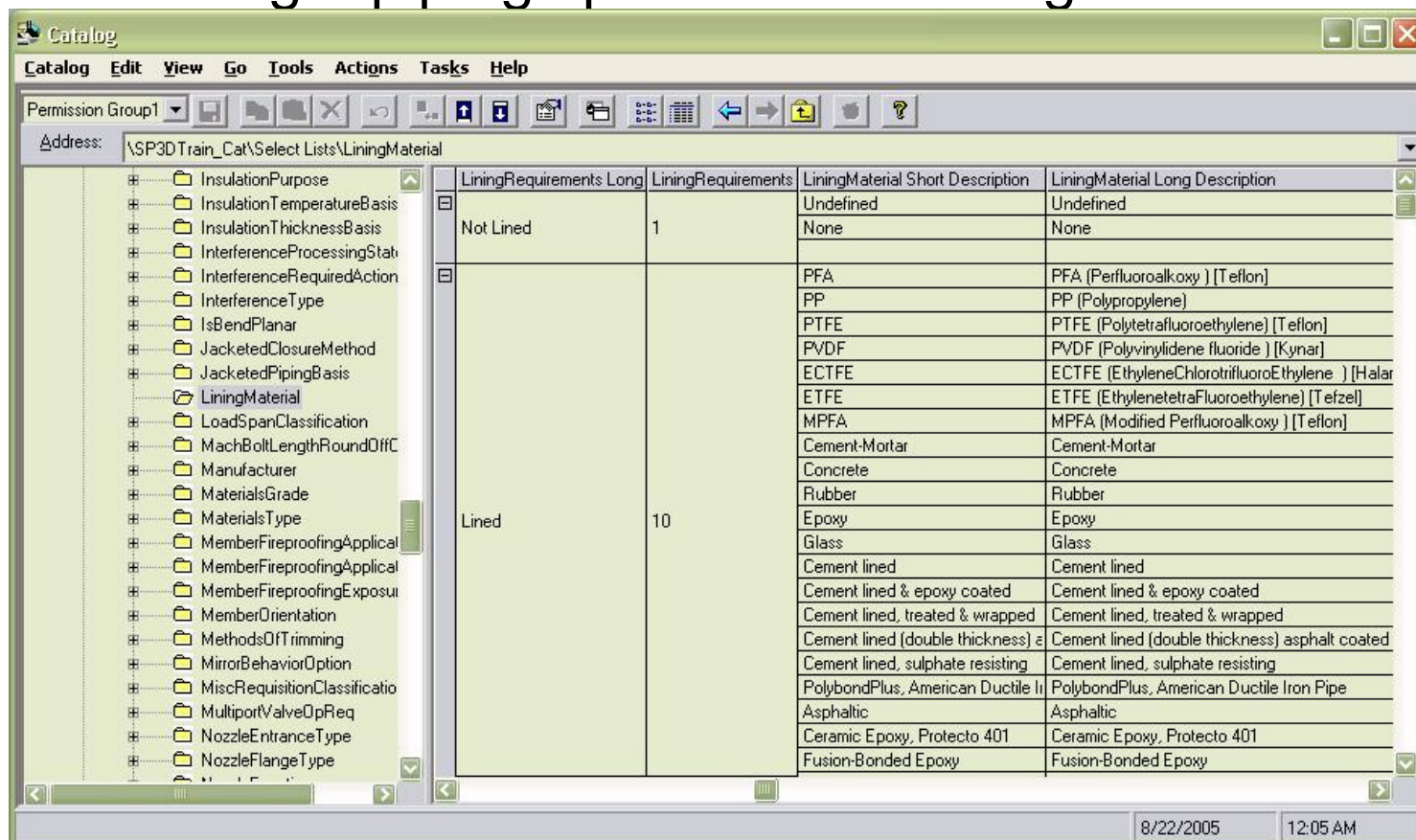
You can also change Piping Spec and Catalog units from the Options Dialog Box.





## The Select List (Standard Notes)

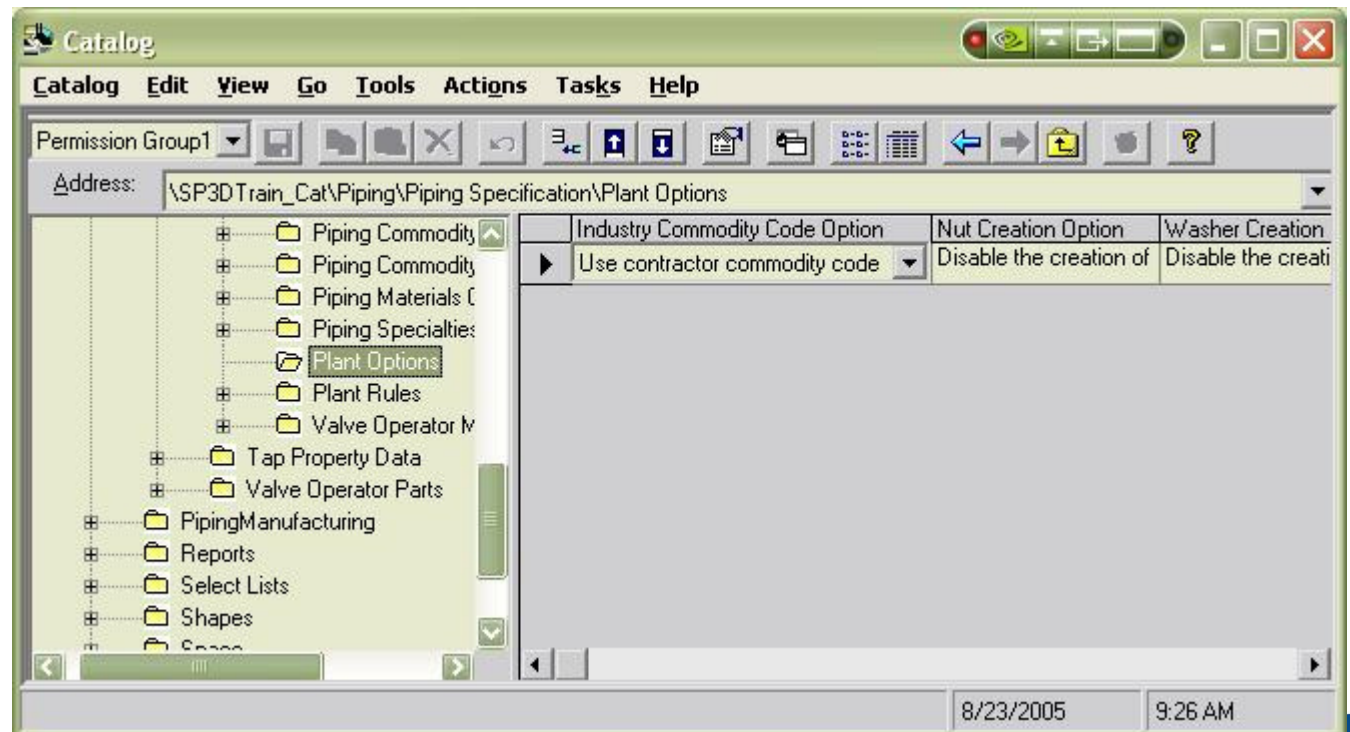
Standard Notes and values can be created and edited while creating a piping spec in the Catalog task.



## 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.