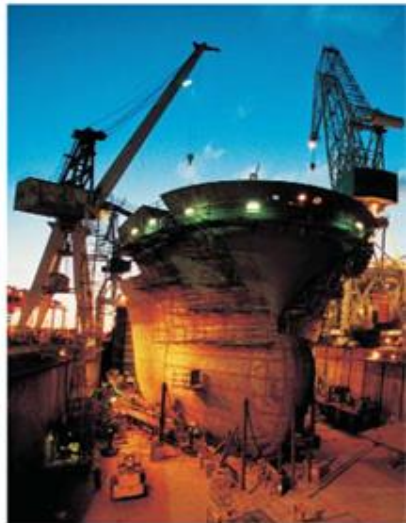


Smart Plant Reference Data

SPRD Labs



Process, Power & Marine





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Note: Replace all occurrence of <Init> in the labs with your initials. Replace all occurrence of <ID> with the id number assigned to you.

Lab 1. Login to SPRD / SP Materials

- Launch Internet Explorer and type in url for your SPRD installation



- FYI: If the Java component JInitiator is not installed the system will automatically download and install it. Please accept all default prompts during installation.
- After installation you will be presented with the Login window. Type in your **User Name, Password** and set **Working With** to **Product Group**. System will display a list of product groups / discipline.

Log On To SmartPlant Materials

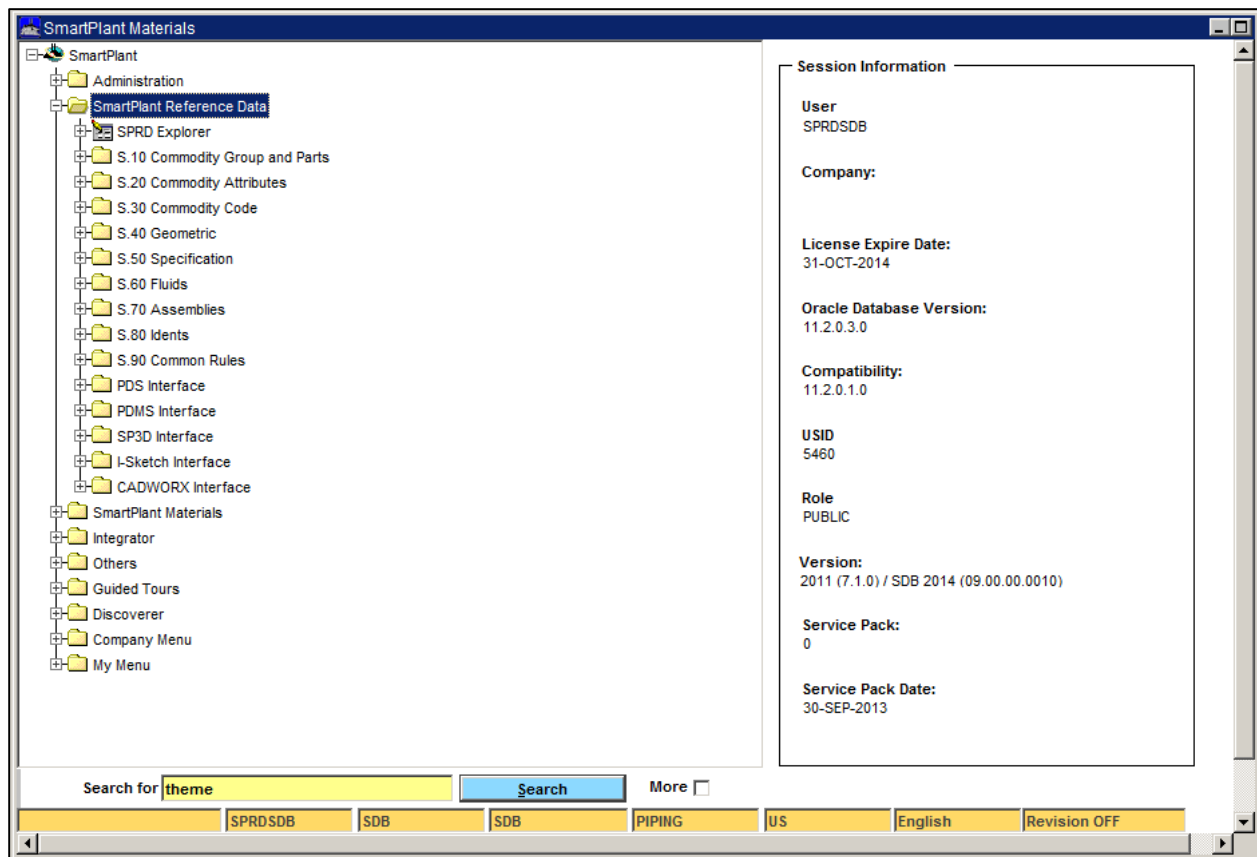
User Name	RAJESH	Project	SDB	Nls	English
Password	*****	Product Group	SDB	Role	SUPER USER
Database	SDBDIN	Discipline	PIPING	Last Analyzed	06-AUG-2008
Working With	Product Group	Version	2008 (6.3.2)	<input checked="" type="checkbox"/> Get Batch Results	
		Service Pack	1		

OK Cancel Help New User

Product Group	Description	Discipline	Language	Role	Last Login
M_GROUP	Def. product group	DEFAULT	English	SUPER USER	03-DEC-2008
SDB	SDB Standard Catalog	DEFAULT	English	SUPER USER	
SDB	SDB Standard Catalog	ELECTRICAL	English	SUPER USER	
SDB	SDB Standard Catalog	EL_IN_CAT	English	SUPER USER	
SDB	SDB Standard Catalog	INSTRUMENT	English	SUPER USER	
SDB	SDB Standard Catalog	MECHANICAL	English	SUPER USER	12-JAN-2009
SDB	SDB Standard Catalog	PIPING	English	SUPER USER	23-JAN-2009
SDB	SDB Standard Catalog	STRUCTURAL	English	SUPER USER	

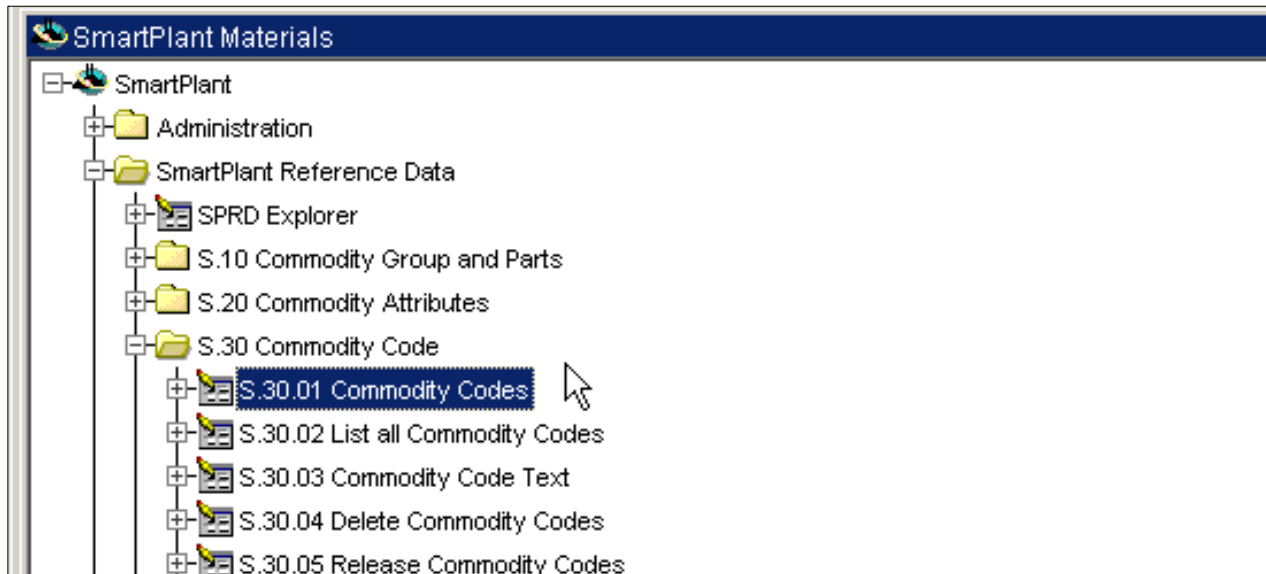
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- d. Select **SDB** Product Group and **Piping** discipline and **click** the **OK** button to login.
- e. On successful login you will be presented with the SPRD / SP Materials Menu.

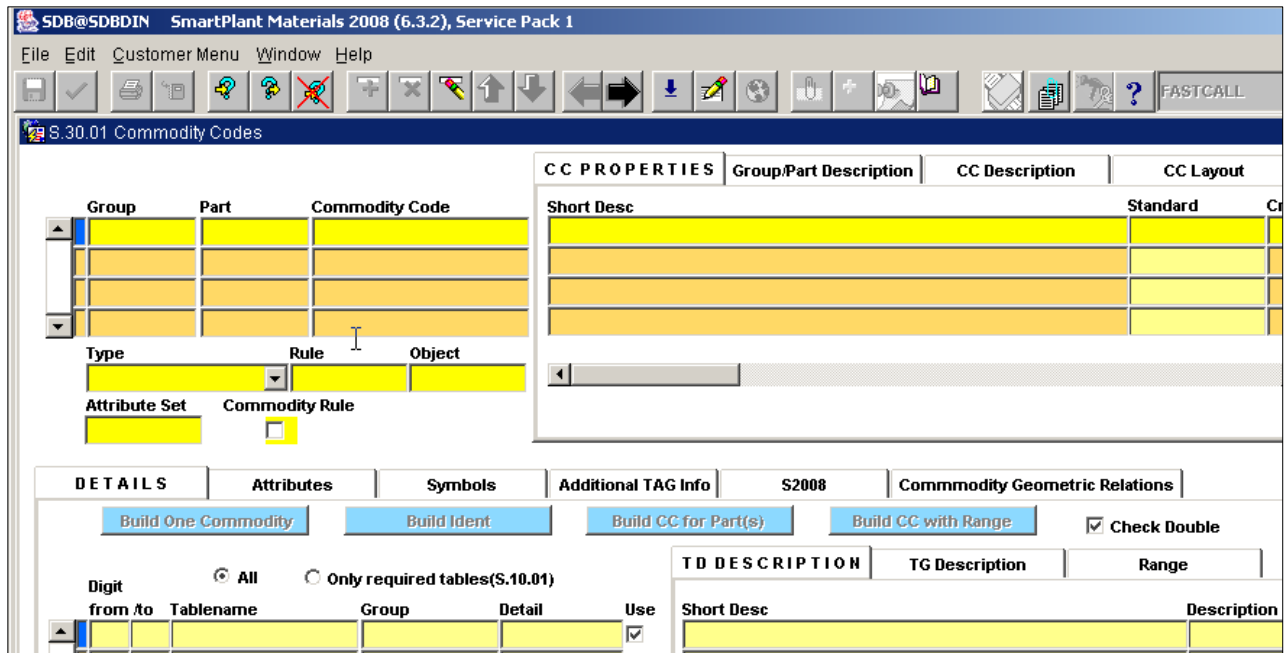


Lab 2. Review toolbar icons

- a. Launch **"S.30.01 Commodity Codes"**


















- i. FYI: By default the system opens this screen in the Query mode. Searchable fields such as Group, Part, Commodity Code, Short Desc etc. have a bright yellow background.











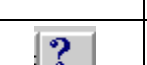
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- b. Move the mouse over the toolbar icons and understand their function based on the list below

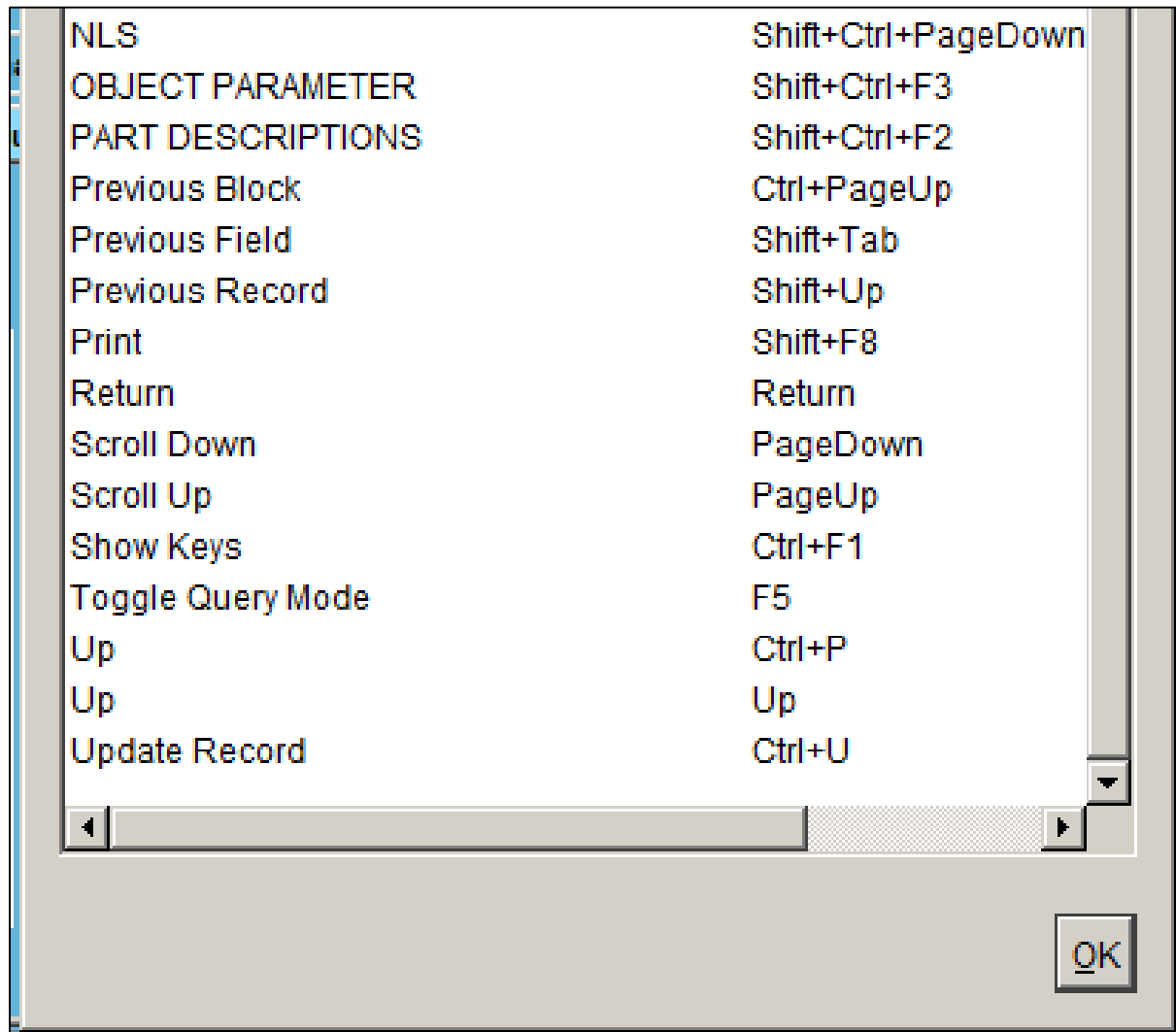


Icon	Function	Description
	Save, F10	Saves record modifications
	Save and Proceed	Saves record changes and moves to the next record
	Print Screen	Prints a snapshot of the active SmartPlant Materials screen to the default printer
	Excel Export	Prints the information in the displayed SmartPlant Materials screen to a data file in the default location.
	Enter Query, F7	Initiates Enter Query mode for a user to set up a database query. Search conditions in yellow fields restrict queries.
	Run Query, F8	Runs a database query after it is defined with Enter Query and displays the data in the SmartPlant Materials screen
	Cancel Query, CTRL+Q	Stops a query and changes from Enter Query mode to Input mode. In Input mode, users can insert records.
	New Record, F6	Adds (inserts) a new record behind the cursor
	Delete Record, SHIFT+F6	Deletes the selected record. If dependent data exists, the user is prompted to click the Delete Record icon again to delete the data and all of its dependent data.
	Clear Record, SHIFT+F4	Clears the record the cursor is on
	Go To Previous Record, SHIFT+↑	Moves to the previous record of a block
	Go To Next Record, SHIFT+↓	Moves to the next record of a block
	Go To Previous Block, CTRL+PgUp	Moves to the previous block
	Go To Next Block, CTRL+PgDn	Moves to the next block
	List of Values (LOV), F9	Displays the list of values (LOV). Click a value to select it for the input field. Click Cancel to dismiss the list and not select a value.

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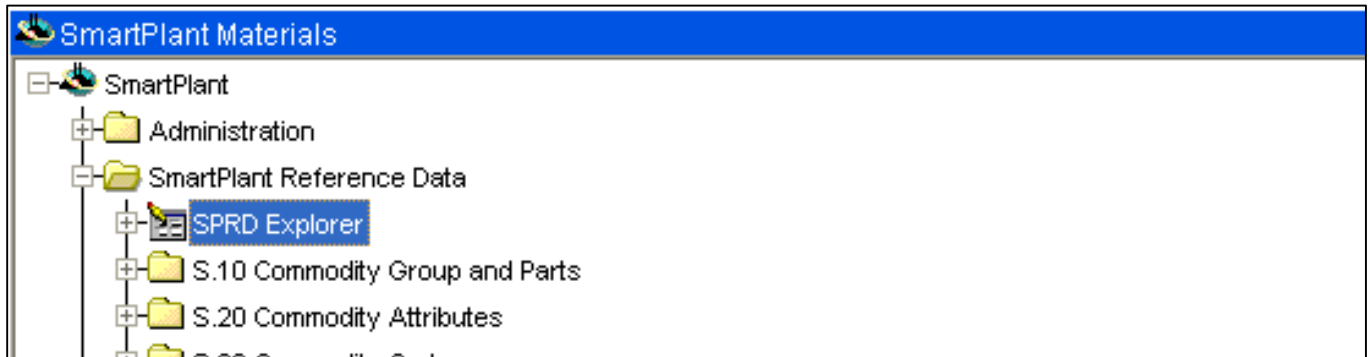
Icon	Function	Description
	Edit Field, CTRL+d	Opens an editor field to allow entry of extensive text into a field
	NLS Description, CTRL+>	Opens a window for polygot input. Click a second time to return to the previous block. (NLS = National Language Support.)
	Record Information	Displays detailed information about the selected record
	Where Condition	Displays the A.60.06 Query Condition screen, for a user to change selection limitations. It displays a user-defined list, for example, a list of all pipe carbon steel items.
	Comments	Allows users to add comments to the displayed SmartPlant Materials record.
	Valid Settings	Opens the Valid Settings dialog box with all project settings relative to the active SmartPlant Materials screen.
	JCS Monitor	Checks background processing initiated from the Start Batch icon available on screens where batch processing is possible. Displays the A.60.41 JCS Jobs screen (Job Control System) where the jobs are listed.
	Help, F2	Displays SmartPlant Materials Help
	FASTCALL	Displays a list of additional SmartPlant Materials screens related to the active task

Keys	
Function	Key
Clear Block	Shift+F5
Clear Field	Ctrl+U
Clear Form	Shift+F7
COMMODITY GROUPS	Shift+Ctrl+F1
COMMODITY RULES	Shift+Ctrl+F10
Count Query	Shift+F2
Delete Record	Shift+F6
Display Error	Shift+F1
Down	Down
Down	Ctrl+L
Duplicate Item	F3
Duplicate Record	F4
Edit	Ctrl+E
Exit	Ctrl+Q
Function 4	Shift+Ctrl+F4
Function 5	Shift+Ctrl+F5
Function 6	Shift+Ctrl+F6
Function 7	Shift+Ctrl+F7
Function 8	Shift+Ctrl+F8
Function 9	Shift+Ctrl+F9
Insert Record	F6
List Tab Pages	F2
Next Block	Ctrl+PageDown
Next Field	Tab
Next Record	Shift+Down

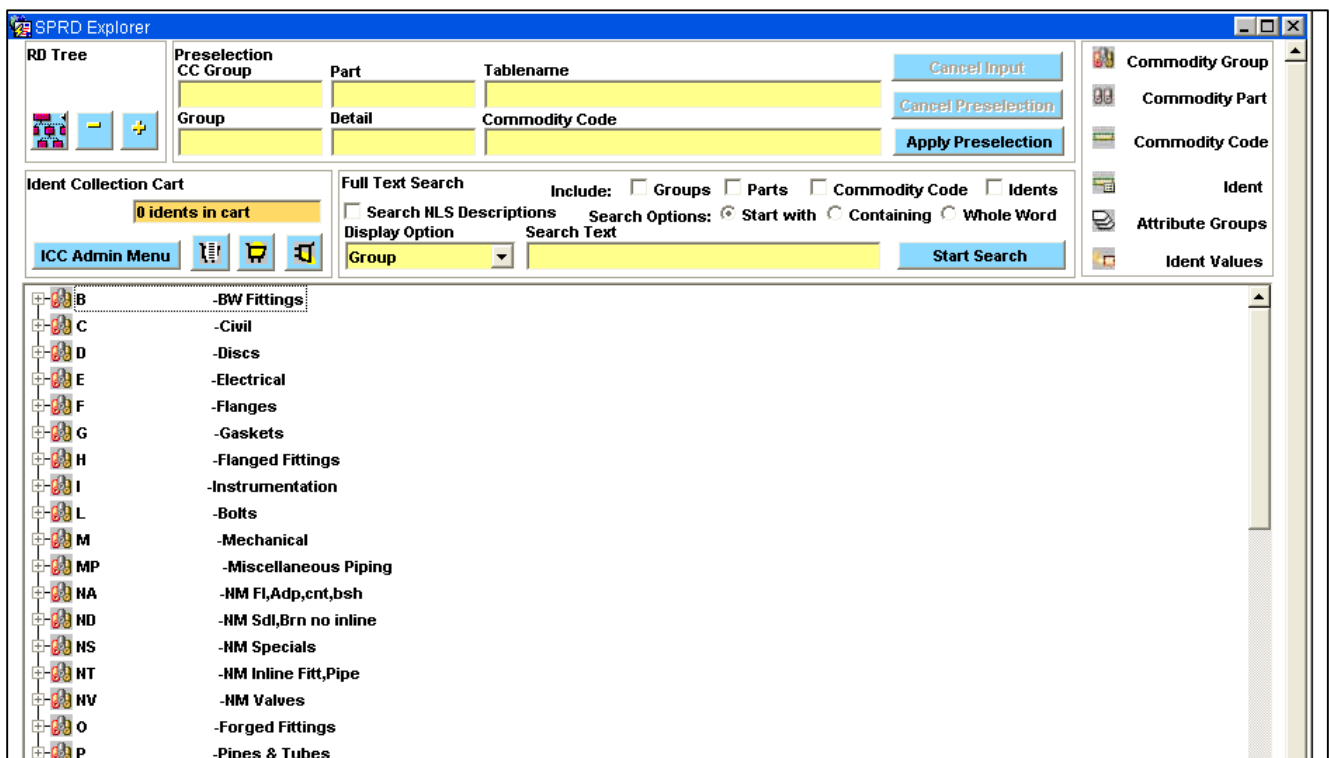


Lab 3. Search for a commodity using the SPRD Explorer

- a. Launch **"SPRD Explorer"** by double clicking on the SPRD Explorer menu option



- b. System displays a list of Commodity Groups defined in the Catalog
 - i. FYI: The catalog is classified into a two level hierarchy of Commodity Group and Commodity Parts.



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- c. Click on the “+” sign to the left of the Group **B – BW Fittings** to display the parts defined for **Butt Weld Fittings**.
- d. Click on the “+” sign to the left of the Part **E45** to display the Commodity Codes defined for **45 Deg Elbow 5D**.

The screenshot shows the SPRD Explorer application. The RD Tree on the left shows a hierarchy: B (BW Fittings) expanded, showing sub-items BLD, CAP, E11, E13, E15, E1L, E1S, E43, E45, E4L, and E4S. E45 is expanded, showing a list of commodity codes and their descriptions. The Preselection table at the top right has columns for CC Group, Part, and Tablename. The Ident Collection Cart shows 0 items. The Full Text Search section includes checkboxes for Groups and Parts, a checkbox for Search NLS Descriptions, a dropdown for Display Option (set to Group), and a text field for Search Text.

CC Group	Part	Tablename
Group	Detail	Commodity Code

Ident Collection Cart: 0 items in cart

Full Text Search: Include: ☐ Groups ☐ Parts
☐ Search NLS Descriptions Search Options: ☒ Start w
Display Option: Group Search Text:

RD Tree: B -BW Fittings

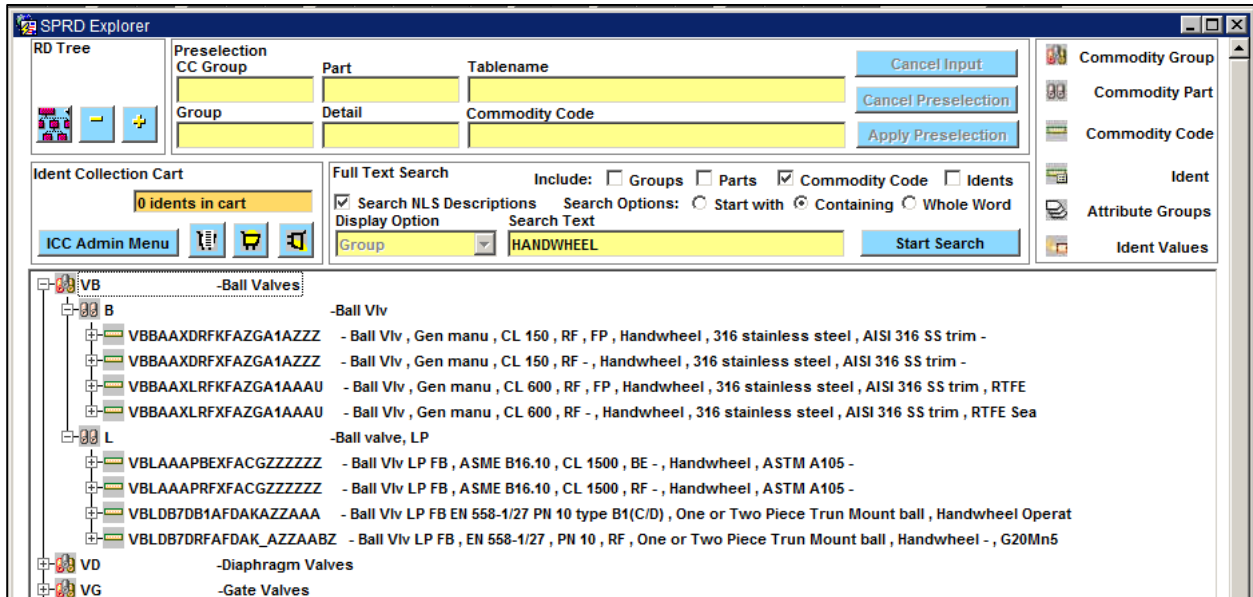
- BLD -BLD
- CAP -Cap
- E11 -180 Deg. Elbow 10D
- E13 -180 Deg. Elbow 3D
- E15 -180 Deg. Elbow 5D
- E1L -180 Deg. Elbow 1.5D
- E1S -180 Deg. Elbow 1D
- E43 -45 Deg. Elbow 3D
- E45 -45 Deg. Elbow 5D
 - BE45AP2BEACKZZZ - 45 Deg. Elbow 5D , Manuf. Std , BE , A 234 Gr. WPB
 - BE45AP2BEACPZZZ - 45 Deg. Elbow 5D , Manuf. Std , BE , A 420 Gr. WPL6
 - BE45AP2BEAEEABA - 45 Deg. Elbow 5D , Manuf. Std , BE , API 5L Gr. B , SMLS
 - BE45AP2BEAEKABA - 45 Deg. Elbow 5D , Manuf. Std , BE , API 5L Gr. X60 , SMLS
 - BE45AP2BEAUVABA - 45 Deg. Elbow 5D , Manuf. Std , BE , A 790 Gr. S32760 , SMLS
- E4L -45 Deg. Elbow 1.5D
- E4S -45 Deg. Elbow 1D

- e. Let us say we want to search for all CC that have **HANDWHEEL** in their description.
- f. Check the **Include: Commodity Code** and **Search NLS Description** checkboxes.
- g. Set the **Search Option** to **Containing**
- h. Type **HANDWHEEL** in the **Search Text** as shown below.

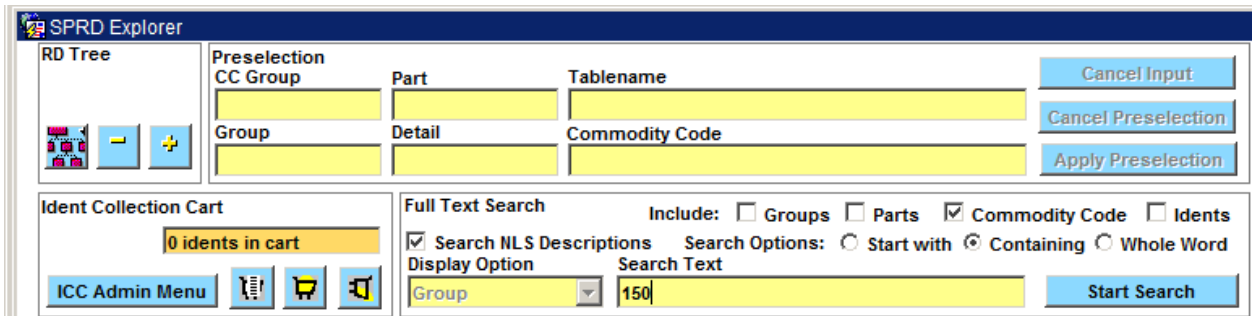
Age Group	Percentage
18-24	10%
25-34	15%
35-44	20%
45-54	25%
55-64	30%
65-74	35%
75-84	40%
85+	45%

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- j. Click the **Apply to tree** button to narrow the Catalog tree.
- k. Expand the **Ball Valve Group / Parts** by clicking on the “+” to the left to get a list of valves with **Handwheel Operator**.

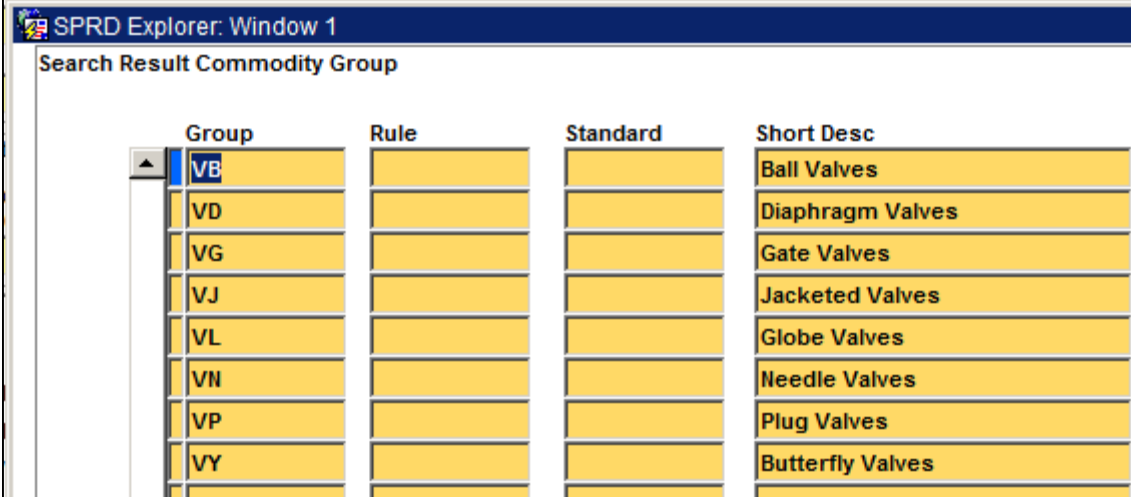


- l. Let us say we wanted to further limit our search to just those Handwheel Operator valve with “150” Rating.
- m. Type **150** in the **Search Text** and click on the **Start Search** button.



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- n. The system will display those Groups where the operator is **Handwheel** and Rating contains the word **150**.

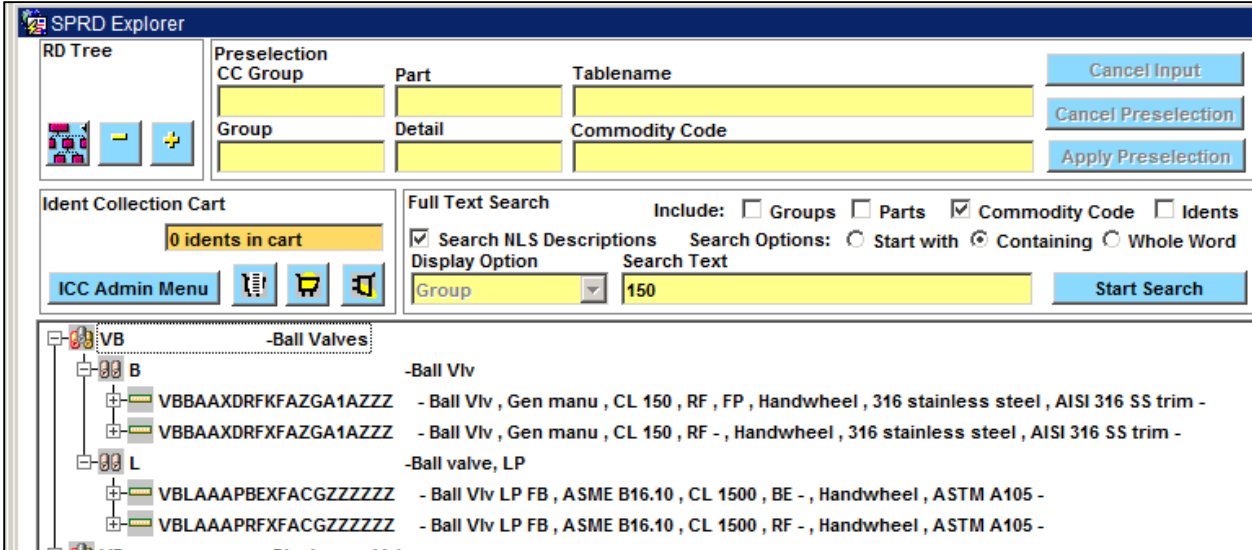


SPRD Explorer: Window 1

Search Result Commodity Group

Group	Rule	Standard	Short Desc
VB			Ball Valves
VD			Diaphragm Valves
VG			Gate Valves
VJ			Jacketed Valves
VL			Globe Valves
VN			Needle Valves
VP			Plug Valves
VY			Butterfly Valves

- o. Click on the **Apply to tree** button to view the Commodity Codes.



SPRD Explorer

RD Tree

Preselection CC Group Part Tablename [Cancel Input](#)

Group Detail Commodity Code [Cancel Preselection](#)

[Apply Preselection](#)

Ident Collection Cart 0 idents in cart [ICC Admin Menu](#) [List](#) [Shopping Cart](#) [Help](#)

Full Text Search Include: ☐ Groups ☐ Parts ☒ Commodity Code ☐ Idents

☒ Search NLS Descriptions Search Options: ☐ Start with ☒ Containing ☐ Whole Word

Display Option Search Text

Group 150 [Start Search](#)

VB -Ball Valves

- B -Ball Viv
 - VBBAAXDRFKFAZGA1AZZZ - Ball Viv , Gen manu , CL 150 , RF , FP , Handwheel , 316 stainless steel , AISI 316 SS trim -
 - VBBAAXDRFXFAZGA1AZZZ - Ball Viv , Gen manu , CL 150 , RF - , Handwheel , 316 stainless steel , AISI 316 SS trim -
- L -Ball valve, LP
 - VLAAAPBEXFACGZZZZZZ - Ball Viv LP FB , ASME B16.10 , CL 1500 , BE - , Handwheel , ASTM A105 -
 - VLAAAPRFXFACGZZZZZZ - Ball Viv LP FB , ASME B16.10 , CL 1500 , RF - , Handwheel , ASTM A105 -

- p. The same results could have been got in one search by typing in **150%HANDWHEEL**
- q. **Double click** on the first **Commodity Code** to view the details

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SPRD Explorer: Window 7

Commodity Code
Commodity Code
VBBAAXDRFKFAZGA1AZZZ

Short Desc
Ball Vlv, Gen manu, CL 150, RF, FP, Handwheel, 316 stainless steel, AISI 316 SS trim -

Description
Ball Valve, Generic manufacturer, Class 150, Raised Face, FP, Handwheel Operator,

Group Short Desc Description
VB Ball Valves Ball Valves

Part Short Desc Description
B Ball Vlv Ball Valve

Rule Short Desc Description
P_VLV_W_OP Valves w. Operator Valve with Operator

Commodity Type Special Table Object Ctrl
Table Detail Based P_1N_E 1

Layout Short
Ball Vlv, Gen manu, CL 150, RF, FP, Handwheel, 316 stainless steel, AISI 316 SS trim-

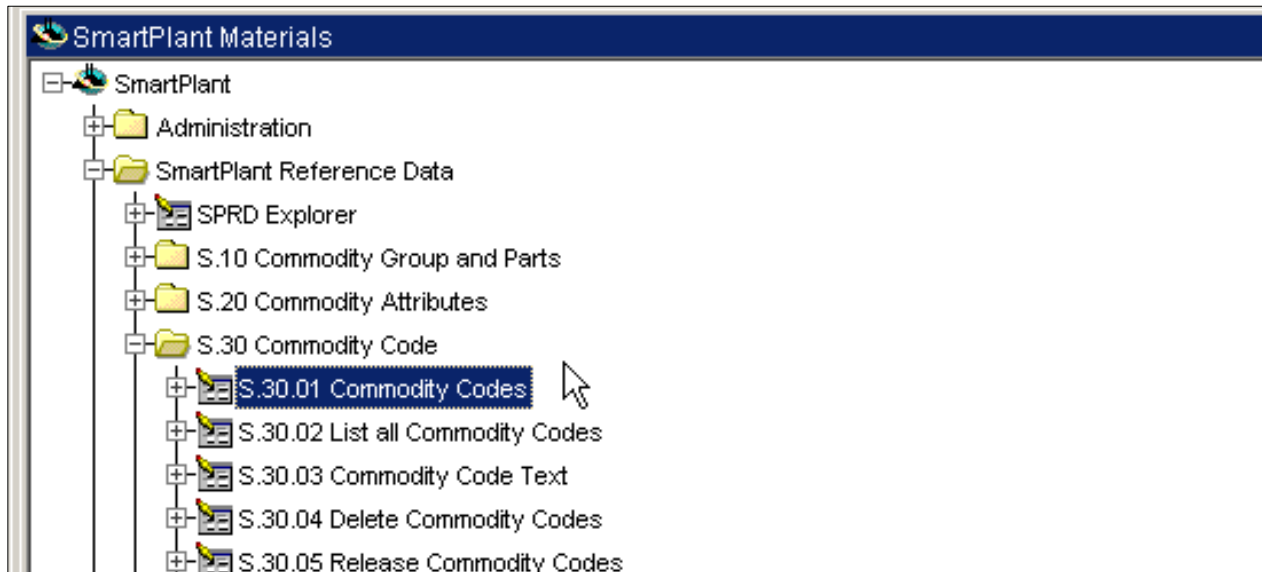
DETAILS Attributes Geom Details

Digit from / to	Tablename	Group	Detail	Short desc	Description
4	P_SYSTEM	US	A		
5	P_DIM_STD	VB_US	AX	, Gen manu	, Generic manufacturer
8	P_RATING	RAT_US	D	, CL 150	, Class 150
10	P_END_PREP	VALVE	RF	, RFFE	, Raised-face flanged end
12	P_VLV_BODY_TYPE	VB_ALL	K	, FP	, FP
13	P_VLV_OPERATOR	ALL	F	, Handwheel	, Handwheel Operator

r. Close all windows.

Lab 4. Search for an existing commodity

- Launch **"S.30.01 Commodity Codes"**



- Ensure you are in **Query mode** (fields will have a yellow background) by pressing function key **F7**

The screenshot shows the 'S.30.01 Commodity Codes' form. The top section contains a table with columns 'Group', 'Part', and 'Commodity Code'. Below this is a section for 'Type', 'Rule', and 'Object'. To the right, the 'CC PROPERTIES' tab is active, showing a 'Short Desc' field. The bottom section has tabs for 'DETAILS', 'Attributes', 'Symbols', 'Additional TAG Info', 'S2008', and 'Commodity Geometric F'. Below these tabs are buttons for 'Build One Commodity', 'Build Ident', 'Build CC for Part(s)', and 'Build CC with Range'. At the bottom, there is a table with columns 'Digit', 'from /to', 'Tablename', 'Group', 'Detail', and 'Use'. The 'All' radio button is selected, and the 'Only required tables(S.10.01)' option is also visible. The 'TD DESCRIPTION' and 'TG Description' tabs are also present.

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- c. Type **VB** in the **Group Code** field and **Run the Query** by pressing **F8**. The system will display all the Ball Valves.

The screenshot shows the 'S.30.01 Commodity Codes' window. The 'Group' field is set to 'VB'. The 'CC PROPERTIES' tab is active, showing a table with columns: Group/Part Description, CC Description, and CC Layout. The table is currently empty.

The screenshot shows the 'S.30.01 Commodity Codes' window after running the query. The 'Group' field is set to 'VB'. The 'CC PROPERTIES' tab is active, showing a table with columns: Group/Part Description, CC Description, and CC Layout. The table contains four rows of data:

Group	Part	Commodity Code	Short Desc	Standard	Crea
VB	L	VBLAA9DFFOBACDCLAAH	Ball Vlv LP FB , API 6D , CL150 , FF , Split body Fltg. ball , Gear Operator , A		M_S
VB	L	VBLAA9DFFOBACDCLZZZ	Ball Vlv LP FB , API 6D , CL150 , FF , Split body Fltg. ball , Gear Operator , A		M_S
VB	L	VBLAA9DFFOEACDACEZZZ	Ball Vlv LP FB , API 6D , CL150 , FF , Split body Fltg. ball , Wrench Operator		M_S
VB	L	VBLAA9DFFOEACDCLZZZ	Ball Vlv LP FB , API 6D , CL150 , FF , Split body Fltg. ball , Wrench Operator		M_S

Below the table, there are fields for 'Type', 'Rule', and 'Object'. The 'Rule' field is set to 'P_VLV_W_OP' and the 'Object' field is set to 'P_1N_E'. There are also checkboxes for 'Attribute Set' and 'Commodity Rule'.

The 'DETAILS' tab is active, showing a table with columns: Digit, from /to, Tablename, Group, Detail, and Use. The table contains 18 rows of data:

Digit	from /to	Tablename	Group	Detail	Use
4	4	P_SYSTEM	US	A	✓
5	6	P_DIM_STD	VB_US	A9	✓
7	7	P_RATING	RAT_US	D	✓
8	9	P_END_PREP	VALVE	FF	✓
10	10	P_VLV_BODY_TYPE	VB_ALL	O	✓
11	11	P_VLV_OPERATOR	ALL	B	✓
12	12	P_MAT_SYSTEM	US	A	✓
13	14	P_MATERIAL	CAST_US	CD	✓
15	17	P_ALIAS_TRIM	VB_US	ACL	✓
18	20	P_ALIAS	VB_US	AAH	✓

Below the table, there are fields for 'Build One Commodity', 'Build Ident', 'Build CC for Part(s)', 'Build CC with Range', and 'Check Double'. The 'Build CC for Part(s)' button is selected.

The 'TD DESCRIPTION' tab is active, showing a table with columns: TG Description and Range. The table contains 18 rows of data:

TG Description	Range
, API 6D	, API 6D
, CL150	, Class 150
, FF	, Flat Face
, Split body Fltg. ball	, Split body Fltg. ball
, Gear Operator	, Gear Operator
, A 216 Gr. WCB	, A 216 Grade WCB
, AISI 410 Ball , Soft Seat	, AISI 410 Ball ,
, ASME B16.47 Series A	, ASME B16.47

- d. Press **F7** to back to the **Query Mode**

- e. Type **%SMLS%** in the **Short Desc** field and **Run the Query** by pressing **F8**.
 - i. FYI: In Query Mode **%** acts as a wildcard. So typing **%SMLS%** in the **Short Desc** field, tells the system to search for all commodities that have the word **SMLS** anywhere in the short description.
 - ii. FYI: If your Oracle is configured to be **“Case Sensitive”** then **%smls%** will not find the Seamless Components.

The screenshot shows the 'S.30.01 Commodity Codes' window. The 'Short Desc' field contains '%SMLS%'. The results table shows four entries:

Group	Part	Commodity Code	Short Desc	Standard	Crea
B	CAP	BCAPABMBEACKAAH	Cap , B16.9 , BE , A 234 Gr. WPB , Galvanized , SMLS		JT
B	CAP	BCAPABMBEACKABA	Cap , B16.9 , BE , A 234 Gr. WPB , SMLS		ASC
B	CAP	BCAPABMBEACLAH	Cap , B16.9 , BE , A 234 Gr. WPC , Galvanized , SMLS		JT
B	CAP	BCAPABMBEACLABA	Cap , B16.9 , BE , A 234 Gr. WPC , SMLS		ASC

Below the results, the 'DETAILS' tab is active, showing a table of attributes:

Digit	from	to	Tablename	Group	Detail	Use	TD DESCRIPTION	TG Description	Range
5	5		P_SYSTEM	US	A	<input checked="" type="checkbox"/>			
6	7		P_DIM_STD	FIT_US	BM	<input checked="" type="checkbox"/>	, B16.9		, ASME B16.9
8	9		P_END_PREP	WELD	BE	<input checked="" type="checkbox"/>	, BE		, Bevelled End
10	10		P_MAT_SYSTEM	US	A	<input checked="" type="checkbox"/>			
11	12		P_MATERIAL	WRGT_US	CK	<input checked="" type="checkbox"/>	, A 234 Gr. WPB		, A 234 Grade V
13	15		P_ALIAS	BWFIT_US	AAH	<input checked="" type="checkbox"/>	, Galvanized , SMLS		, Galvanized , S

- f. Press **F7** to return to the **Query Mode**. Type **F** in the **Group** field and press **Tab** to move the **Part** field
- g. Click on the List of Values (LOV) icon or press **F9** to view a list of valid part
 - i. FYI: The title of the LOV has the screen name where the list is maintained
- h. Select **LJ** and click on the **OK** button

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The screenshot shows the 'S.30.01 Commodity Codes' window. The 'Group' field is set to 'F' and the 'Part' field is set to 'LJ'. The 'Commodity Code' field is empty. The 'Short Desc' field is empty. The 'CC Description' field is empty. The 'CC Properties' tab is selected. The 'Find %' field is empty. The search results table is as follows:

Part	Short Desc	Description
BL	Blind Flg.	Blind Flange
LJ	Lap Joint Flg.	Lap Joint Flange
O2	WN Ori Flg 0.5" Thd	Weldneck Orifice Flange with 0.5" Threaded Tap
O3	WN Ori Flg 0.75" Thd	Weldneck Orifice Flange with 0.75" Threaded Tap
O5	WN Ori Flg 0.5" S...	Weldneck Orifice Flange with 0.5" Socketweld Tap
O6	WN Ori Flg 0.75" S...	Weldneck Orifice Flange with 0.75" Socketweld Tap
OB	SO Ori Flg 0.5" Thd	Slip-on Orifice Flange with 0.5" Threaded Tap
RT	Red. Thd. Flg.	Reducing Threaded Flange
RW	Red. WN Flg.	Reducing Weldneck Flange
SO	SO Flg. - Hub Type	Slip-on Flange - Hub Type
SW	SW Flg.	Socketweld Flange
TH	Thd. Flg.	Threaded Flange

- i. The system will set the **Part** field to **LJ**. **Run the Query** by pressing **F8** to view all the Lap Joint Flanges.

The screenshot shows the 'S.30.01 Commodity Codes' window. The 'Group' field is set to 'F' and the 'Part' field is set to 'LJ'. The 'Commodity Code' field is empty. The 'Short Desc' field is empty. The 'CC Description' field is empty. The 'CC Layout' field is empty. The 'CC Properties' tab is selected. The 'Find %' field is empty. The search results table is as follows:

Group	Part	Commodity Code	Short Desc	Standard	Creation
F	LJ				

The screenshot shows the 'S.30.01 Commodity Codes' window. The 'Group' field is set to 'F' and the 'Part' field is set to 'LJ'. The 'Commodity Code' field is empty. The 'Short Desc' field is empty. The 'CC Description' field is empty. The 'CC Layout' field is empty. The 'CC Properties' tab is selected. The 'Find %' field is empty. The search results table is as follows:

Group	Part	Commodity Code	Short Desc	Standard	Creation
F	LJ	FLJABLDFFACGA1A	Lap Joint Flg. , B16.5 , CL150 , FF , A105/A105H , 125 - 250 Ra Finish		AK
F	LJ	FLJABLDFFACGZZZ	Lap Joint Flg. , B16.5 , CL150 , FF , A105/A105H		AK
F	LJ	FLJABLDFFACHZZZ	Lap Joint Flg. , B16.5 , CL150 , FF , A 181 Cl. 60		AK
F	LJ	FLJABLDFFACJZZZ	Lap Joint Flg. , B16.5 , CL150 , FF , A 181 Cl. 70		AK

The 'DETAILS' tab is selected. The 'Build One Commodity' button is highlighted. The 'Build Ident' button is highlighted. The 'Build CC for Part(s)' button is highlighted. The 'Build CC with Range' button is highlighted. The 'Check Double' checkbox is checked. The 'Table Detail Based' dropdown is set to 'P_FLANGE'. The 'Rule' dropdown is set to 'P_1N_E'. The 'Object' dropdown is set to 'P_1N_E'. The 'Attribute Set' dropdown is set to 'Commodity Rule'. The 'Commodity Rule' checkbox is checked. The 'TD DESCRIPTION' tab is selected. The 'TG Description' tab is selected. The 'Range' tab is selected. The search results table is as follows:

Digit	from	to	Tablename	Group	Detail	Use	Short Desc	Description
4	4		P_SYSTEM	US	A	✓		
5	6		P_DIM_STD	FLG_US	BL	✓	, B16.5	, ASME B16.5
7	7		P_RATING	RAT_US	D	✓	, CL150	, Class 150
8	9		P_END_PREP	FLANGE	FF	✓	, FF	, Flat Face Flange
10	10		P_MAT_SYSTEM	US	A	✓		
11	12		P_MATERIAL	FORG_US	CG	✓	, A105	, A105
13	15		P_ALIAS	FLG_US	A1A	✓	, 125 - 250 Ra Finish	, 125 - 250 Ra S

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- j. Ensure you are in **Query Mode (F7)**. Type **PPPABQBEAD4AAVZ** in the **Commodity Code** field and **Run the Query** by pressing **F8** to view details of the “Pipe , ASME B36.10M , BE , ASTM A333-6 , SMLS , Ej=1.00” commodity

S.30.01 Commodity Codes

Group	Part	Commodity Code	Short Desc
		PPPABQBEAD4AAVZ	

S.30.01 Commodity Codes

Group	Part	Commodity Code	Short Desc	Standard
P	PP	PPPABQBEAD4AAVZ	Pipe , ASME B36.10M , BE , ASTM A333-6 , SMLS , Ej=1.00	US

Type: Table Detail Based Rule: P_PIPE Object: P_1N1S_L

Attribute Set: CT Desc Rule: CC Rule: Disused: ☐

DETAILS Attributes Symbols Additional TAG Info S2008 Commodity Geometric Relations

Build One Commodity Build Ident Build CC for Part(s) Build CC with Range ☒ Check Double

☒ All ☐ Only required tables(S.10.01)

Digit from /to	Tablename	Group	Detail	Use	Short Desc	Description
4 4	P_SYSTEM	US	A	<input checked="" type="checkbox"/>		
5 7	P_DIM_STD	PIP_US	BQ	<input checked="" type="checkbox"/>	, ASME B36.10M	, ASME B36.10
10 11	P_END_PREP	PIPE	BE	<input checked="" type="checkbox"/>	, BE	, Beveled End
12 12	P_MAT_SYSTEM	US	A	<input checked="" type="checkbox"/>		
13 15	P_MATERIAL	PIPE_US	D4	<input checked="" type="checkbox"/>	, ASTM A333-6	, ASTM A333-6
16 19	P_ALIAS	PIPE_US	AAV	<input checked="" type="checkbox"/>	, SMLS , Ej=1.00	, Seamless , t

- k. Click on the **CC Description** tab to view the complete description.

S.30.01 Commodity Codes

Group	Part	Commodity Code	Short Desc
P	PP	PPPABQBEAD4AAVZ	Pipe , ASME B36.10M , BE , ASTM A333-6 , SMLS , Ej=1.00

Type: Table Detail Based Rule: P_PIPE Object: P_1N1S_L

Attribute Set: CT Desc Rule: CC Rule: Disused: ☐

CC Properti... Group/Part ... C C D E S C ... CC Layout CMS Details CMS

Short Desc: Pipe , ASME B36.10M , BE , ASTM A333-6 , SMLS , Ej=1.00

Description: Pipe , ASME B36.10M , Welded and Seamless Wrought Steel Pipe , Beveled End , ASTM A333-6 , Seamless , Ej=1.00

- l. Do not close the **“S.30.01 Commodity Codes”** screen

Lab 5. Add new Material

- In the **Details** tab, click on the table **Detail** field **D4** of the **P_MATERIAL** row
- Click on the **Fast Call** drop down to access the **"S.20.02 Tablenames with Details"** screen

The screenshot shows the 'SmartPlant Materials 2011 (7.1.0), Service Pack 0' application window. The 'DETAILS' tab is active, displaying a table of material details. The table has columns: Digit from /to, Tablename, Group, Detail, Use, Short Desc, and Description. The 'P_MATERIAL' row is highlighted, showing detail 'D4' with a short description of 'ASTM A333-6' and a description of 'ASTM A333-6'. A 'FASTCALL' dropdown menu is open, showing a list of options including 'S.20.02 Tablenames with Details'.

Digit from /to	Tablename	Group	Detail	Use	Short Desc	Description
4	P_SYSTEM	US	A	✓		
5	P_DIM_STD	PIP_US	BQ	✓	, ASME B36.10M	, ASME B36.10M
10	P_END_PREP	PIPE	BE	✓	, BE	, Beveled End
12	P_MAT_SYSTEM	US	A	✓		
13	P_MATERIAL	PIPE_US	D4	✓	, ASTM A333-6	, ASTM A333-6
16	P_ALIAS	PIPE_US	AAV	✓	, SMLS , Ej=1.00	, Seamless , E

- System will display the material code and its description

The screenshot shows the 'S.20.02 Tablenames with Details' screen. It displays the 'Tablename with Groups' section, showing the 'P_MATERIAL' row with a description of 'Pipe US'. Below this, the 'Details' section shows a table with columns: Table Detail, Short Desc, Description, Disused, and Base_Mat. The 'D4' row is highlighted, showing a short description of 'ASTM A333-6' and a description of 'ASTM A333-6'.

Table Detail	Short Desc	Description	Disused	Base_Mat
D4	, ASTM A333-6	, ASTM A333-6	<input type="checkbox"/>	Carbon Steels

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- d. Click on a blank row in the **Details** tab to add a new material **Y<ID>** with a description **Demo Material Y<ID>**. Note: The material will be added in the **PIPE_US** group, as shown in the **Tablename with Groups** section.

S.20.02 Tablenames with Details

Tablename with Groups

Tablename	Group	Description
P_MATERIAL	PIPE_US	Pipe US

Details

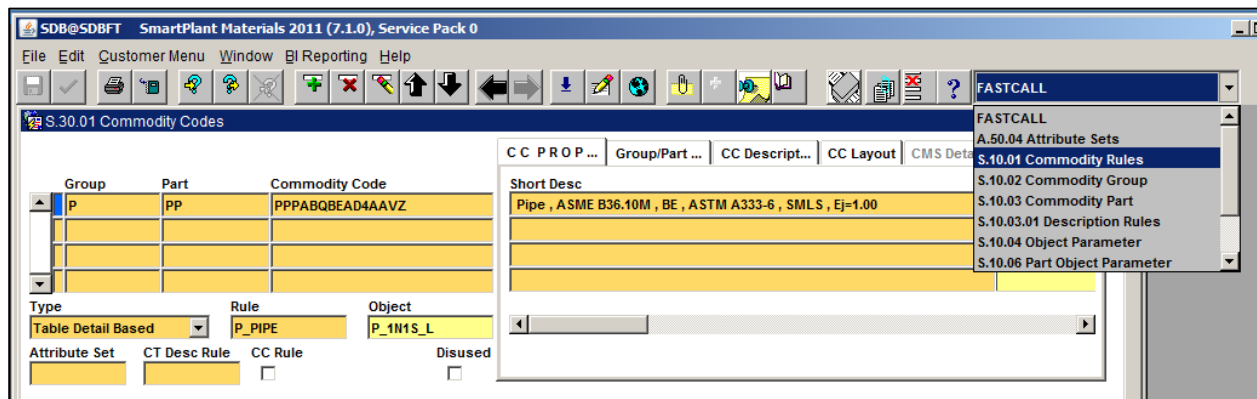
Copy Table Copy Tablegroup Order by Description Duplicate Details

Table Detail	Short Desc	Description	Disused	Base_Mat
Y1	Demo Material 1	Demo Material 1	<input type="checkbox"/>	Carbon Steels
			<input type="checkbox"/>	

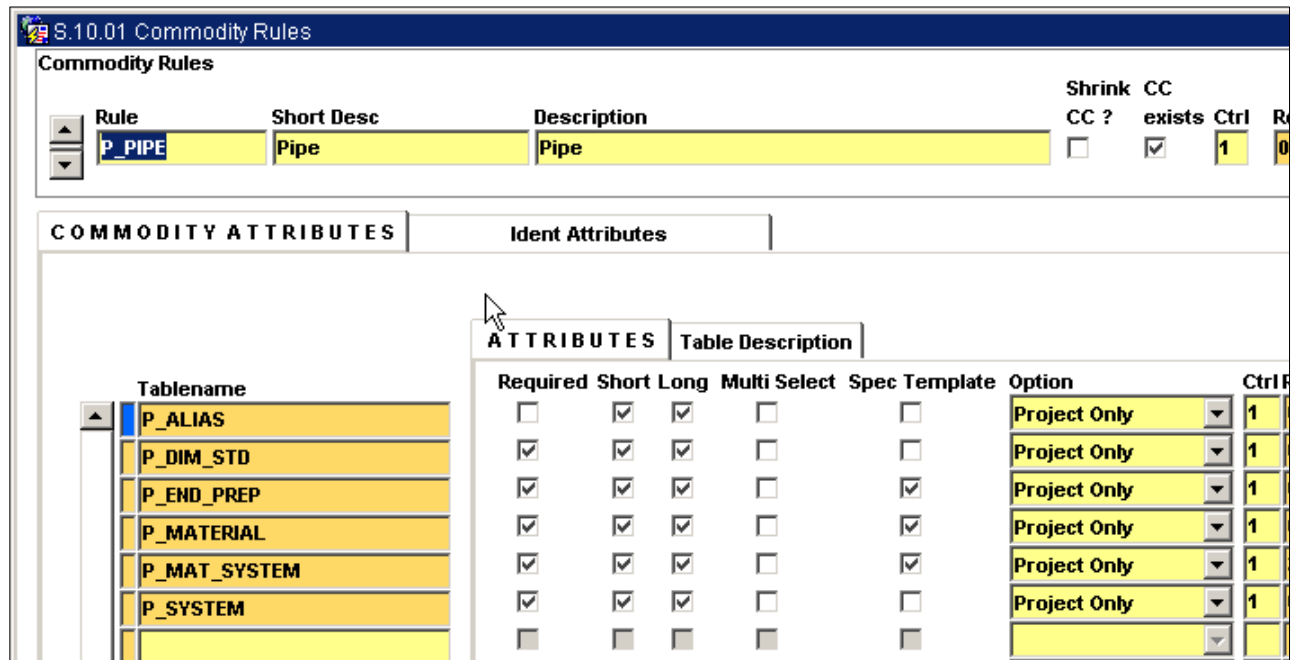
- e. **Save** the changes
- f. Close the **"S.20.02 Tablenames with Details"** to return to **"S.30.01 Commodity Codes"** screen.
- g. Do not close the **"S.30.01 Commodity Codes"** screen

Lab 6. Review Commodity Rule

- Click on the **Fast Call** drop down to access **"S.10.01 Commodity Rule"** screen



- The screen **"S.10.01 Commodity Rules"** will open in the query mode
- Type **P_PIPE** in the **Rule** field and **Run the Query**
- System will display the tables required to build the commodity code with this rule.



- Click on the **Go To Next Block** Icon (big black arrow pointing right) twice to open the **"S.10.01 Commodity Rules: Window 2"** screen, which shows how the Commodity Code will be built based on table details.

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- f. Click on the **Go To Next Block** Icon to open the **S.10.01 Commodity Rules: Window 3** screen, which shows how the descriptions will be built from table details

S.10.01 Commodity Rules: Window 3

Layout for Rule **P_PIPE**

Nls **English** Manual ☒ Ctrl **1** Rev Begin **09-OCT-2006** Rev End **01-JAN-3000**

Layout Short

#m_parts_short##p_dim_std_short##p_end_prep_short##p_material_short##p_alias_shor t#

- g. Close the three **"S.10.01 Commodity Rule"** screens to return to the **"S.30.01 Commodity Codes"** screen

Lab 7. Copy an existing Commodity Code

Note: If multiple students are working on the same server, it is possible that you may encounter an error in this lab, in which case, please repeat the lab by selecting a different commodity code in step a, l, m and n respectively.

Note: If you do not find the specific commodity code in your installation, choose the closest Commodity Code.

- a. Search for the commodity code **PPPABQBEAD4AAVZ**
- b. Select the first commodity code that is returned, by placing the cursor in Commodity Code field in the upper section.
- c. Add a new row by clicking on the **New Record** (Green Plus sign) icon
- d. Duplicate the commodity code by pressing function key **F4**
- e. The new commodity code will read as **DUPL: PPPABQBEAD4AAVZ**
- f. In the **Details** tab, navigate to the **P_MATERIAL** row and change the Material code to **Y<ID>** using **List of Values (F9)**. Add the Material Code Y1 if it does not exists.
- g. Save the changes

- h. Click on the **Build One Commodity** button to create a new commodity code
- i. System will ask if you want to generate **Only CC** or **CC+Idents**
- j. Click on the **Only CC** button

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k. System will assign a new Commodity Code **PPPABQBEAY<ID>AAVZ**

S.30.01 Commodity Codes

Group	Part	Commodity Code	Short Desc	Standard
P	PP	PPPABQBEAD4AAVZ	Pipe , ASME B36.10M , BE , ASTM A333-6 , SMLS , Ej=1.00	US
P	PP	PPPABQBEAY1AAVZ	Pipe , ASME B36.10M , BE Demo Material 1 , SMLS , Ej=1.00	US

Type: Table Detail Based Rule: P_PIPE Object: P_1N1S_L

Attribute Set: CT Desc Rule: CC Rule: Disused: ☐

DETAILS | Attributes | Symbols | Additional TAG Info | S2008 | Commodity Geometric Relations

Build One Commodity | Build Ident | Build CC for Part(s) | Build CC with Range | ☒ Check Double

☒ All ☐ Only required tables(S.10.01)

Digit from	to	Tablename	Group	Detail	Use	Short Desc	Description
4	4	P_SYSTEM	US	A	<input checked="" type="checkbox"/>		
5	7	P_DIM_STD	PIP_US	BQ	<input checked="" type="checkbox"/>	, ASME B36.10M	, ASME B36.10M
10	11	P_END_PREP	PIPE	BE	<input checked="" type="checkbox"/>	, BE	, Beveled End
12	12	P_MAT_SYSTEM	US	A	<input checked="" type="checkbox"/>		
13	15	P_MATERIAL	PIPE_US	Y1	<input checked="" type="checkbox"/>	Demo Material 1	Demo Material 1
16	19	P_ALIAS	PIPE_US	AAV	<input checked="" type="checkbox"/>	, SMLS , Ej=1.00	, Seamless

l. Next search for a flange **FSWABLDRF%** and build a flange with material **Y<ID>**

S.30.01 Commodity Codes

Group	Part	Commodity Code	Short Desc	Standard
F	SW	FSWABLDRFACGZZZ	SW Flg. , B16.5 , CL150 , RF , A105/A105N	
F	SW	FSWABLDRFAY1ZZZ	SW Flg. , B16.5 , CL150 , RF Demo Material Y1	

Type: Table Detail Based Rule: P_FLANGE Object: P_1N1S_E

Attribute Set: Commodity Rule: ☐

DETAILS | Attributes | Symbols | Additional TAG Info | S2008 | Commodity Geometric Relations

Build One Commodity | Build Ident | Build CC for Part(s) | Build CC with Range | ☒ Check Double

☒ All ☐ Only required tables(S.10.01)

Digit from	to	Tablename	Group	Detail	Use	Short Desc	Description
4	4	P_SYSTEM	US	A	<input checked="" type="checkbox"/>		
5	6	P_DIM_STD	FLG_US	BL	<input checked="" type="checkbox"/>	, B16.5	, ASME B16.5
7	7	P_RATING	RAT_US	D	<input checked="" type="checkbox"/>	, CL150	, Class 150
8	9	P_END_PREP	FLANGE	RF	<input checked="" type="checkbox"/>	, RF	, Raised Face
10	10	P_MAT_SYSTEM	US	A	<input checked="" type="checkbox"/>		
11	12	P_MATERIAL	FORG_US	Y1	<input checked="" type="checkbox"/>	Demo Material Y1	Y1

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- m. Similarly build a gasket from any one returned by searching for **GSWAB%**. Add the Material Code Y1 if it does not exists.

S.30.01 Commodity Codes

Group	Part	Commodity Code	CC PROPERTIES	Group/Part Description	CC Description	CC Layout
G	SW	GSWAB7DFFABBA2B	Short Desc	Sp. Wound Gskt , B16.21 , CL 150 , FF 304-W, graph-F, CS-CR , THK 3 mm	Standard	
G	SW	GSWAB7DFFAY1A2BZ	Short Desc	Sp. Wound Gskt , B16.21 , CL 150 , FF Demo Material Y1 , THK 3 mm	Standard	

Type: Table Detail Based Rule: P_FLANGE Object: P_1M1T_E

Attribute Set: CT Desc Rule: Commodity Rule

DETAILS Attributes Symbols Additional TAG Info S2008 Commodity Geometric Relations

Build One Commodity Build Ident Build CC for Part(s) Build CC with Range Check Double

Digit from to Table Name Group Detail Use

Digit	from	to	Table Name	Group	Detail	Use
4	4	4	P_SYSTEM	US	A	✓
5	7	7	P_DIM_STD	GSK_US	B7	✓
8	9	9	P_RATING	RAT_US	D	✓
10	11	11	P_END_PREP	GSKT	FF	✓
12	12	12	P_MAT_SYSTEM	US	A	✓
13	15	15	P_MATERIAL	GSK_US	Y1	✓
16	19	19	P_ALIAS	GSKT_US	A2B	✓

T D DESCRIPTION TG Description Range

Short Desc	Description
, B16.21	, ASME B16.21
, CL 150	, Class 150
, FF	, Flat Face
Demo Material Y1	Demo Material
, THK 3 mm	, Gasket Thick

- n. Similarly build a ball valve from any one returned by searching for **VBBAAXD%**. Add the Material Code Y1 if it does not exists.

S.30.01 Commodity Codes

Group	Part	Commodity Code	CC PROPERTIES	Group/Part Description	CC Description	CC Layout
VB	M	VBMAAXMSWACACDACA2	Short Desc	Ball Vlv LP RB , Manf. Std. , CL800 , SWE , One or Two piece Trun. Mount. I	Standard	AK
VB	M	VBMAAXMSWACAY1ACA2	Short Desc	Ball Vlv LP RB , Manf. Std. , CL800 , SWE , One or Two piece Trun. Mount. I	Standard	RAJI

Type: Table Detail Based Rule: P_VLV_W_OP Object: P_1N_E

Attribute Set: Commodity Rule

DETAILS Attributes Symbols Additional TAG Info S2008 Commodity Geometric Relations

Build One Commodity Build Ident Build CC for Part(s) Build CC with Range Check Double

Digit from to Table Name Group Detail Use

Digit	from	to	Table Name	Group	Detail	Use
4	4	4	P_SYSTEM	US	A	✓
5	6	6	P_DIM_STD	VB_US	AX	✓
7	7	7	P_RATING	RAT_US	M	✓
8	9	9	P_END_PREP	VALVE	SW	✓
10	10	10	P_VLV_BODY_TYPE	VB_ALL	A	✓
11	11	11	P_VLV_OPERATOR	ALL	C	✓
12	12	12	P_MAT_SYSTEM	US	A	✓
13	14	14	P_MATERIAL	CAST_US	Y1	✓
15	17	17	P_ALIAS_TRIM	VB_US	ACA	✓

T D DESCRIPTION TG Description Range

Short Desc	Description
, Manf. Std.	, Manufacture
, CL800	, Class 800
, SWE	, Socket Weld
, One or Two piece Trun. Mount. ball	, One or Two p
, Lever Operator	, Lever Operat
Demo Material Y1	Y1
, AISI 316 SS Trim , RPTFE Seat	, AISI 316 SS Tr

Lab 8. Extending the SDB - Build a custom Commodity Rule

- Launch **"S.10.01 Commodity Rules"**
- Ensure you are in the **Data Entry (Green Background)** mode (Rule field will have a green background) and not the **Query Mode**. (Click the **Blue Question mark** with a **Red X** icon to change from **Query** mode to **Data Entry** mode)
- Enter a Rule code of **XX_RULE_<Init>** and Description (**Demo Rule <Init>**).
- Save the changes

The screenshot shows the 'S.10.01 Commodity Rules' window. The 'Commodity Rules' tab is active, displaying a table with one row: Rule 'XX_RULE_RC', Short Desc 'Demo rule RC', and Description 'Demo rule RC'. The 'Data Entry' mode is indicated by a green background on the Rule field. Below this, the 'COMMODITY ATTRIBUTES' tab is selected, showing a table with columns: Tablename, Required, Short, Long, Multi Select, Spec Template, Option, and Ctrl. The 'Table Description' sub-tab is also visible.

- Add the table **P_ALIAS** in the **Commodity Attributes** tab as **Not Required** by clicking on a blank row and pressing Function Key **F9** to select **P_ALIAS** from **LOV** for the **Tablename**.
- Similarly add the tables **P_MATERIAL**, **P_MAT_SYSTEM**, **P_DIM_STD**, **P_END_PREP** in the **Commodity Attributes** tab but mark them as **Required**.
- Save the changes

The screenshot shows the 'S.10.01 Commodity Rules' window after updates. The 'COMMODITY ATTRIBUTES' tab is active, and the 'Table Description' sub-tab is selected. The table now lists five tables: P_ALIAS, P_MATERIAL, P_MAT_SYSTEM, P_DIM_STD, and P_END_PREP. P_ALIAS is marked as 'Not Required' (checkbox unchecked), while the others are marked as 'Required' (checkbox checked). All 'Option' fields are set to 'Project Only'.

Tablename	Required	Short	Long	Multi Select	Spec Template	Option	Ctrl
P_ALIAS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project Only	1
P_MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project Only	1
P_MAT_SYSTEM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project Only	1
P_DIM_STD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project Only	1
P_END_PREP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project Only	1

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- h. Click on the **Go To Next Block** Icon to view **"S.10.01 Commodity Rules: Window 2"**.
- i. Enter the sequence in which the table codes will be concatenated to build the commodity code as follows
 1. M_COMMODITY_GROUPS
 2. M_PARTS
 3. M_PARTS
 4. M_PARTS (Ins Char: -)
 5. P_DIM_STD
 6. P_DIM_STD
 7. P_END_PREP
 8. P_END_PREP
 9. P_MAT_SYSTEM
 10. P_MATERIAL
 11. P_MATERIAL
 12. P_ALIAS (Ins Char: Z)
 13. P_ALIAS (Ins Char: Z)
 14. P_ALIAS (Ins Char: Z)
- j. Save the changes

S.10.01 Commodity Rules: Window 2

COMMODITY KEYS | Concept Commodity Keys | Interface Cor

Rule: XX_RULE_RC

Digit Id	Tablename	Ins Char	Ctrl
1	M_COMMODITY_GROUPS		1
2	M_PARTS		1
3	M_PARTS		1
4	M_PARTS	-	1
5	P_DIM_STD		1
6	P_DIM_STD		1
7	P_END_PREP		1
8	P_END_PREP		1
9	P_MAT_SYSTEM		1
10	P_MATERIAL		1
11	P_MATERIAL		1
12	P_ALIAS	-	1
13	P_ALIAS	-	1
14	P_ALIAS	-	1

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- k. Click on the **Go To Next Block** Icon to view **“S.10.01 Commodity Rules: Window 3”**.
- l. View the default **Short** and **Long Layout** that will be used to generate the commodity description. Place a **comma** between each of the codes.

S.10.01 Commodity Rules: Window 3

Layout for Rule **XX_RULE_RC**

Nls **1** **English** Manual ☒ Ctrl **1** Rev B **20-JA**

Layout Short

```
#m_commodity_code#,  
#m_commodity_groups_short#,  
#m_parts_short#,  
#p_alias_short#,  
#p_material_short#,  
..
```

Layout Long

```
#m_commodity_code#,  
#m_commodity_groups_long#,  
#m_parts_long#,  
#p_alias_long#,  
#p_material_long#,  
#p_mat_system_long#,  
#p_dim_std_long#,  
#p_end_prep_long#
```

- m. Save the changes
- n. Close all the screens.

Lab 9. Extending the SDB - Build a new Commodity Group

- Launch **"S.10.02 Commodity Group"**
- Ensure you are in the **Data Entry (Green Background)** mode and not the **Query Mode**
- Enter a Group Code **XX_GRP_<Init>** with description of **Demo Group XX <Init>**.

Group	Rule	Standard	Short Desc	Description
XX_GRP_RC			Demo Group XX RC	Demo Group XX RC

- Leave the **Rule** and the **Standard** field blank.
- Save the changes
- Close all the screens

Lab 10. Extending the SDB - Build a new Commodity Part

- Launch **"S.10.03 Commodity Part"**
- Ensure you are in the **Query Mode** and not the **Data Entry (Green Background)** mode
- In the upper section, type **XX_GRP_<Init>** in the Group Code and **Run the Query**
- In the bottom section, add a new Part **XX_PART_<Init>** with description **Demo Part XX <Init>** and **BR_LEGEND = 1**.
- Select the **Rule XX_RULE_<Init>** created in previous lab via the **LOV (F9)**.
- Leave the **Standard** field blank. Ensure that the **Kind of Part** is set to **Variable**
- From the List of Values for **SP3D Part Class** select **PipeStock**. This will ensure that all the piping commodity codes created for this part will be exported in the PipeStock sheet in the SP3D Catalog workbooks.

The screenshot shows the 'S.10.03 Commodity Part' window. It is divided into two main sections: 'Commodity Groups' and 'Commodity Parts'.

Commodity Groups: This section contains a table with columns: Group, Short Desc, and Description. The data row shows: Group: XX_GRP_RC, Short Desc: Demo Group XX RC, Description: Demo Group XX RC.

Commodity Parts: This section contains a table with columns: Part, Rule, TAG Desc Rule, Standard, Short Desc, and Description. The data row shows: Part: XX_PART_RC, Rule: XX_RULE_RC, TAG Desc Rule: (blank), Standard: (blank), Short Desc: Demo Part RC, Description: Demo Part RC.

Below the 'Commodity Parts' table, there are two tabs: 'Part Symbols' and 'Special Attributes'. The 'Part Symbols' tab is active, showing a table with columns: Kind of Part, SP3D PartClass, and Group in PipeStock. The data row shows: Kind of Part: Variable, SP3D PartClass: (blank), Group in PipeStock: (blank).

- Save the changes
- Close all the screens.

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S.30.01 Commodity Codes

Group	Part	Commodity Code
XX_GRP_RC	XX_PART_RC	CC79643

Type: Table Detail Based Rule: XX_RULE_RC Object:
 Attribute Set: Commodity Rule: ☐

CC PROPERTIES

Group/Part Description	CC Description	CC Layout
Short Desc	Standard	Crea

DETAILS

Attributes Symbols Additional TAG Info S2008 Commodity Geometric Relations

Build One Commodity Build Ident Build CC for Part(s) Build CC with Range ☒ Check Double

Digit from to Tablename Group Detail Use

Digit	from	to	Tablename	Group	Detail	Use
5	6		P_DIM_STD	PIP_US	BR	<input checked="" type="checkbox"/>
7	8		P_END_PREP	PIPE	PE	<input checked="" type="checkbox"/>
9	9		P_MAT_SYSTEM	US	A	<input checked="" type="checkbox"/>
10	11		P_MATERIAL	PIPE_US	Y1	<input checked="" type="checkbox"/>
12	14		P_ALIAS	PIPE_US	AAG	<input checked="" type="checkbox"/>

TD DESCRIPTION TG Description Range

Short Desc	Description
, B36.19M	, ASME B36.19M
, PE	, Plain End
Demo Material Y1	Demo Material
, SMLS	, Seamless

- Click on the **Build One Commodity** button to create a new commodity code. System will ask if you want to generate **Only CC** or **CC+Idents**. Click on the **Only CC** button
- Verify that the system assigns the following commodity code **XXX_BRPEAY<ID>AAG**

S.30.01 Commodity Codes

Group	Part	Commodity Code
P	PP	PPPABQBEACQAAG
XX_GRP_RC	XX_PART_RC	XXX_BRPEAY1AAG

Type: Table Detail Based Rule: XX_RULE_RC Object:
 Attribute Set: Commodity Rule: ☐

CC PROPERTIES

Group/Part Description	CC Description	CC Layout
Short Desc	Standard	Crea
Pipe , B36.10M , BE , A 106 Gr. A , SMLS		AK
Demo Part RC , B36.19M , PE Demo Material Y1 , SMLS		RAJI

DETAILS

Attributes Symbols Additional TAG Info S2008 Commodity Geometric Relations

Build One Commodity Build Ident Build CC for Part(s) Build CC with Range ☒ Check Double

Digit from to Tablename Group Detail Use

Digit	from	to	Tablename	Group	Detail	Use
5	6		P_DIM_STD	PIP_US	BR	<input checked="" type="checkbox"/>
7	8		P_END_PREP	PIPE	PE	<input checked="" type="checkbox"/>
9	9		P_MAT_SYSTEM	US	A	<input checked="" type="checkbox"/>
10	11		P_MATERIAL	PIPE_US	Y1	<input checked="" type="checkbox"/>
12	14		P_ALIAS	PIPE_US	AAG	<input checked="" type="checkbox"/>

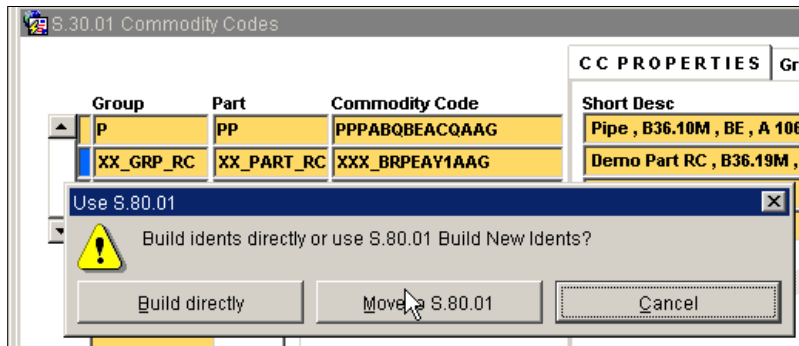
TD DESCRIPTION TG Description Range

Short Desc	Description
, B36.19M	, ASME B36.19M
, PE	, Plain End
Demo Material Y1	Demo Material
, SMLS	, Seamless

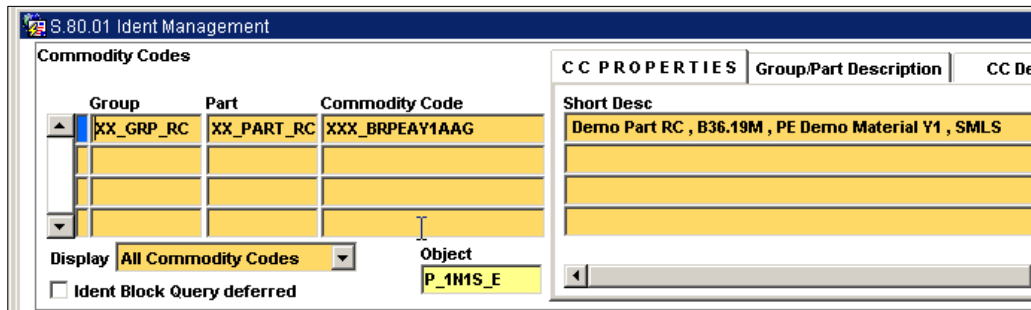
- Close all the screens

Lab 12. Build Idents using existing Geometrics

- Launch **"S.30.01 Commodity Codes"** Screen
- Search for commodity code **XXX_BRPEAY<ID>AAG** and click the **Build Ident** button



- From the prompted dialog, click on the **Move to S.80.01** screen button.
 - FYI: Alternatively you could have launched **"S.80.01 Ident Management"** screen and searched for the Commodity Code **XXX_BRPEAY<ID>AAG**.
- From the List of Values select **P_1N1S_E** for the **Object** field and save the changes



- Click on the **Object Parameter** tab to view the attributes needed to fully qualify the CC to build Idents. These attributes are associated with the **Object P_1N1S_E**.

Group	Part	Commodity Code	Short Desc
XX_GRP_RC	XX_PART_RC	XXX_BRPEAY1AAG	Demo Part RC , B36.19M , PE Demo Material Y1 , SMLS

Display: **All Commodity Codes** Object: **P_1N1S_E**

☐ Ident Block Query deferred

- f. Click on the **Commodity Geometric Relations** tab
- g. Add a new relation by selecting the **Geometric** table **P_BI_1NPS_1SCH** (via LOV) with **From** and **To** range of **.5** to **24**. Also check the **Ident?** Checkbox.
- h. Save the changes
- i. System will display all the Size / Schedule combinations associated with the **Geometric P_BI_1NPS_1SCH** in the **Geom Details** section of the **Only New Idents** tab.

Date/Time created	Geometric	Project/PG	From	To
21-JAN-2009 12:38:13	P_BI_1NPS_1SCH	SDB	.5	24

☒ Ident? [Show reasons](#)

Unit System	NPS1	SCH1	Unused	Unused	Unused	Unused
IMP/MET	.5	S-10	0	0	0	0
IMP/MET	.5	S-10S	0	0	0	0
IMP/MET	.5	S-160	0	0	0	0
IMP/MET	.5	S-30	0	0	0	0
IMP/MET	.5	S-40	0	0	0	0

- i. FYI: In the **Commodity Geometric Relations** tab, if the **Idents?** Is checked then the relationship will be used to build idents. Other relationships can be defined to specify unit weight, surface area and physical dimensions such as Face to Face, Face to Center etc. required by Designing and Modeling tools such as SP3D, PDS, PDMS. Do not check the **Idents?** for these relationships.
- i. FYI: There are the four types of Geometric Tables i.e. **Commodity Geometrics** (to build Idents), **Standard Geometrics** (dimensions as per Standards), **Other Geometrics** (Non Commodity or Standards related geometric i.e. Gasket thickness) and **Filter Geometrics** (to limit valid idents for Specs).
- ii. FYI: Multiple relationships can be defined for the Commodity Group / Part by qualifying it with filters based on sizes and table details.
- j. Let us assume that for this pipe we use only the Extra Strong Schedule. To limit the idents to those sizes associated with schedule S-XS, press **F7** to enter **Query Mode**. Type **S-XS** in **Sch1** field and **Run the Query**.

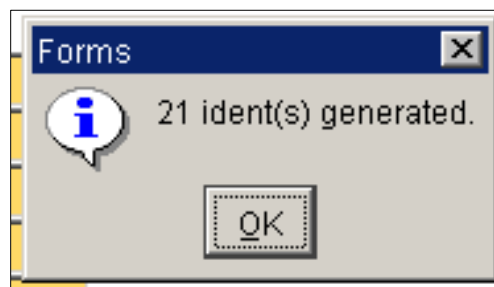
Group	Part	Commodity Code	Short Desc
XX_GRP_RC	XX_PART_RC	XXX_BRPEAY1AAG	Demo Part RC

Display: All Commodity Codes Object: P_1M1S_E

☐ Ident Block Query deferred

Unit System	Nps1	Sch1	Ident Code
IMP/MET	.5	S-XS	
IMP/MET	.75	S-XS	
IMP/MET	1	S-XS	
IMP/MET	1.25	S-XS	
IMP/MET	1.5	S-XS	
IMP/MET	2	S-XS	
IMP/MET	2.5	S-XS	
IMP/MET	3	S-XS	
IMP/MET	3.5	S-XS	

- k. Click on the **Build Queried Idents** to build idents with schedule **S-XS**. System will display the number of Idents created.



- l. Click on the **Existing Idents** tab to review the idents that have been created.
- m. Let us assume that for this pipe, the sizes .75", 1.25", 2.5" and 3.5" are not valid. **Click** on any field in these rows and press the **Delete** icon to delete the idents associated with sizes **.75, 1.25, 2.5 and 3.5**

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S.80.01 Ident Management

Commodity Codes

Group	Part	Commodity Code
XX_GRP_RC	XX_PART_RC	XXX_BRPEAY1AAG

Display All Commodity Codes Object P_1M1S_ET

☐ Ident Block Query deferred

CC PROPERTIES | Group/Part Description | CC Desc

Short Desc:

Demo Part RC , B36.19M , PE Demo Material Y1 , SMLS

Only new Idents

EXISTING IDENT S

Commodity Geometric Relations

Object Para

Delete Idents

Ident Structure

Invalid Idents

Inter

Ident	Ident Code	Unit System	Ctrl	Project/PG	Nps1	Sch1
3675225	I3675225	IMP/MET	1	SDB	.5	S-XS
3675227	I3675227	IMP/MET	1	SDB	1	S-XS
3675229	I3675229	IMP/MET	1	SDB	1.5	S-XS
3675235	I3675235	IMP/MET	1	SDB	2	S-XS
3675240	I3675240	IMP/MET	1	SDB	3	S-XS
3675242	I3675242	IMP/MET	1	SDB	4	S-XS
3675243	I3675243	IMP/MET	1	SDB	5	S-XS
3675244	I3675244	IMP/MET	1	SDB	6	S-XS
3675245	I3675245	IMP/MET	1	SDB	8	S-XS
3675230	I3675230	IMP/MET	1	SDB	10	S-XS
3675231	I3675231	IMP/MET	1	SDB	12	S-XS

Ident Layout

4" x S-XS XXX_BRPEAY1AAG,
Demo Group XX RC,

- i. FYI: Every **Ident** is assigned a unique no. (**Ident** field). Additionally the system assigns an **Ident Code** (default is **Ident no** with a prefix of **I**). Rules can be defined to build ident codes as per user requirement.
- n. Close all the screens

Lab 13. Extending the SDB – Build a new Commodity Geometric Table

- a. Launch **“S.40.12 Commodity Geometrics”** screen to create a new Commodity Geometric table.
- b. Ensure you are in the **Data Entry (Green Background)** mode and not the **Query Mode**
- c. Type **X_<Init>_BI_1NPS_1SCH** in the **Geometric** field and select **Tablename** of **P_BI_1NPS_1SCH** from **LOV**.
- d. Type in a **Description** of **1NPS 1SCH** and select **Standard** of **US** from **LOV**.

Geometric	Tablename	Short Desc	Description
X_RC_BI_1NPS_1SCH	P_BI_1NPS_1SCH	1NPS 1SCH	1NPS 1SCH

- e. Save the changes
- f. Double Click on the **Tablename P_BI_1NPS_1SCH** to view the attributes associated with it. Note that the table **P_BI_1NPS_1SCH** has two input fields **NPS1** and **SCH1**, which means that our Geometric table will consist of size and schedule.

Table Type	Table Type Description	Tablename
GEOM_S4012	Commodity Geometrics	P_BI_1NPS_1SCH

Attr Name	Data Type	Form Width	Precision	Physical Attribute	Kind Of Attribute	Unit
NPS1	NUMBER	8	3	GD.IN1	1. Nominal Size	in
SCH1	CHAR	8	0	GD.IN2	1. Schedule	-
P_NULL	CHAR	7	0	GD.OUT15	Others	-

- g. Close the **“A.50.03 Tables/Attributes”** screen to return to **“S.40.12 Commodity Geometrics”**
- h. Click on the **Go To Next Block** Icon to move to **“S.40.12 Commodity Geometrics: Window 2”** to enter the valid size / schedule combinations.

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- i. Enter Size / Schedule combinations as shown below and save the changes

S.40.12 Commodity Geometrics: Window 2

Geometric Table Definition

Calc Geom **Geometric** **Short Desc**

Apply Calculation X_RC_BI_1NPS_1SC 1NPS 1SCH

Geom Details

Copy Geom

	Unit System	HPS1	SCH1	P_NULL	Ctrl
▲	IMP/MET	1	S-XS		1
	IMP/MET	2	S-XS		1
	IMP/MET	3	S-XS		1
	IMP/MET	4	S-XS		1
	IMP/MET	6	S-XS		1

- j. Close all the screens

Lab 14. Building Idents using the new Geometric Table

- a. Build a new Commodity Code
 - i. Launch **"S.30.01 Commodity Codes"**
 - ii. Ensure you are in the **Data Entry (Green Background)** mode and not the **Query Mode**
 - iii. Set the **Group XX_GRP_<Init>** and **Part XX_PART_<Init>** from **LOV (F9)**
 - iv. Save the changes
 - v. The system will assign a dummy **commodity code CC1234567**, Rule **XX_RULE_<Init>** and required tables in the **Details** tab.

- vi. In the **Details** tab click on the **Group** field and select the codes as shown below for each of the tables.

Tablename	Group	Detail	Short Desc
P_DIM_STD	PIP_US	BR	, B36.19M
P_END_PREP	PIPE	BE	, BE
P_MAT_SYSTEM	US	A	
P_MATERIAL	PIPE_US	Y<ID>	Demo Material <ID>

- vii. Click on the **Digit From** field of the first blank row in the **Details** tab and select the **P_ALIAS** table from the **LOV**.
- viii. Click on the **Detail** field and select the code **AAG** as shown below
- ix. Save the changes
- x. Click on the **Build One Commodity** button to create a new commodity code. System will ask if you want to generate **Only CC** or **CC+Idents**. Click on the **Only CC** button

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- xi. Verify that the system assigns the commodity code **XXX_BRBEAY<ID>AAG**.
 - I. FYI: Note that the system assigned the **Object P_1N1S_E** based on the first commodity code we created for **Group XX_GRP_<Init>** and **Part XX_PART_<Init>**

Group	Part	Commodity Code	Short Desc	Standard	Crea
XX_GRP_RC	XX_PART_RC	XXX_BRBEAY1AAG	Demo Part RC , B36.19M , BE Demo Material Y1 , SMLS		RAJI

Type	Rule	Object
Table Detail Based	XX_RULE_RC	P_1N1S_E

Digit	from	to	Tablename	Group	Detail	Use
5	6	P_DIM_STD	PIP_US	BR	<input checked="" type="checkbox"/>	
7	8	P_END_PREP	PIPE	BE	<input checked="" type="checkbox"/>	
9	9	P_MAT_SYSTEM	US	A	<input checked="" type="checkbox"/>	
10	11	P_MATERIAL	PIPE_US	Y1	<input checked="" type="checkbox"/>	
12	14	P_ALIAS	PIPE_US	AAG	<input checked="" type="checkbox"/>	

- b. Build Idents using the new Geometric Table
 - i. Click on the **Build Ident** button

Group	Part	Commodity Code	Short Desc
P	PP	PPPABQBEACQAAG	Pipe , B36.10M , BE , A 106
XX_GRP_RC	XX_PART_RC	XXX_BRPEAY1AAG	Demo Part RC , B36.19M , F

Use S.80.01

Build idents directly or use S.80.01 Build New Idents?

- ii. From the prompted dialog, click on the **Move to S.80.01** screen button.
- iii. Click on the **Object Parameter** tab to view the attributes needed to fully qualify the CC to build Idents.

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S.80.01 Ident Management

Commodity Codes			CC PROPERTIES	Group/Part Description	CC Description
Group	Part	Commodity Code	Short Desc		
XX_GRP_RC	XX_PART_RC	XXX_BRBEAY1AAG	Demo Part RC , B36.19M , BE Demo Material Y1 , SMLS		

Display **All Commodity Codes** ☐ Ident Block Query deferred Object **P_1N1S_E**

Only new Idents Existing Idents **Commodity Geometric Relations** OBJECT PARAM

Parameter Details

No.	Input?	Name	Ident ?	Opt?	Attr Name	Unit	Kind of Detail	Short De
1	<input checked="" type="checkbox"/>	NPS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NPS1	in	1. Nominal Size	NPS 1
2	<input checked="" type="checkbox"/>	SCH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SCH1	-	1. Schedule	SCH 1

- iv. Click on the **Commodity Geometric Relations** tab
- v. Add a new relation by selecting the **Geometric** table **X_<Init>_BI_1NPS_1SCH** (via **LOV**) with **From** and **To** range of **.5** to **24**. Also check the **Ident?** checkbox and save the changes
- vi. System will display all the Size / Schedule values associated with the **Geometric P_BI_1NPS_1SCH** in the **Geom Details** section.

S.80.01 Ident Management

Commodity Codes			CC PROPERTIES	Group/Part D
Group	Part	Commodity Code	Short Desc	
XX_GRP_RC	XX_PART_RC	XXX_BRBEAY1AAG	Demo Part RC , B36.19M , BE Demo	

Display **All Commodity Codes** ☐ Ident Block Query deferred Object **P_1N1S_E**

Only new Idents Existing Idents **COMMODITY GEOMETRIC RELATIONS** Object

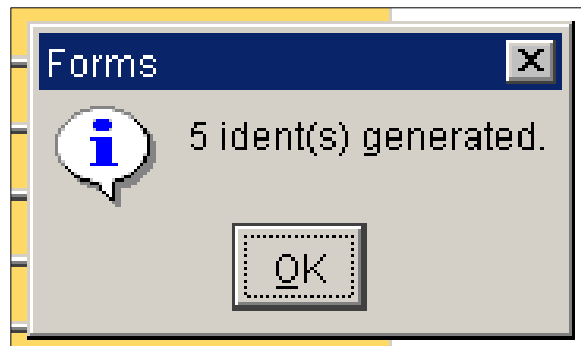
Date/Time created: 22-JAN-2009 14:09:31
 Geometric: **X_RC_BI_1NPS_1SC**
 Project/PG: SDB
 From: .5 To: 24
 ☒ Ident?
 [Show reasons](#)

Geom Details

Unit System	NPS1	SCH1	Unused	Unused	Unused	Unused
IMP/MET	1	S-XS	0	0	0	0
IMP/MET	2	S-XS	0	0	0	0
IMP/MET	3	S-XS	0	0	0	0
IMP/MET	4	S-XS	0	0	0	0
IMP/MET	6	S-XS	0	0	0	0

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- vii. Click on the **Only New Idents** tab to see which idents can be created.
- viii. Click on the **Build All Idents**. System will create the 5 idents.



- ix. Click on the **Existing Idents** tab to review the new idents

S.80.01 Ident Management

Commodity Codes

Group	Part	Commodity Code
XX_GRP_RC	XX_PART_RC	XXX_BRBEAY1AAG

Display **All Commodity Codes** ☐ Ident Block Query deferred

Object **P_1N1S_E**

CC PROPERTIES Group/Part Description CC Des

Short Desc

Demo Part RC , B36.19M , BE Demo Material Y1 , SMLS

Only new Idents **EXISTING IDENT S** Commodity Geometric Relations Object Par

Delete Idents Ident Structure Invalid Idents Inte

Ident	Ident Code	Unit System	Ctrl	Project/PG	Nps1	Sch1
3675246	I3675246	IMP/MET	1	SDB	1	S-XS
3675247	I3675247	IMP/MET	1	SDB	2	S-XS
3675248	I3675248	IMP/MET	1	SDB	3	S-XS
3675249	I3675249	IMP/MET	1	SDB	4	S-XS
3675250	I3675250	IMP/MET	1	SDB	6	S-XS

- I. FYI: Every **Ident** is assigned a unique no. (**Ident** field). Additionally the system assigns an **Ident Code** (default is **Ident no** with a prefix of **I**). Rules can be defined to build ident codes as per user requirement.
- c. Close all the screens

Lab 15. Extending the SDB – Build a new Geometric Rule

- a. Launch **"S.40.21 Geometric Rules"** to create a new Geometric Rule
- b. Ensure you are in the **Data Entry (Green Background)** mode and not the **Query Mode**
- c. Type **XX_<Init>** as the **Rule** name and set **Def. Formula** to **P_DUMMY**
- d. Type in a **Short Comment** of **Demo Rule** and **Comment** of **Demo Group Part Rule**

Rule	Def. Formula	Short Comment	Comment
XX_RC	P_DUMMY	Demo Rule	Demo Group Part Rule

- e. Save the changes
- f. Click on the **Geometric Rule Definition** section and create new definition as follows

Field	Value
No.	1
Group	XX_GRP_<Init>
Part	XX_PART_<Init>
Geometric	X_<Init>_BI_1NPS_1SCH
Formula	P_DUMMY
Ident	Check
Input 1 From	1
Input 1 To	24

- g. Click on the **Used Tables and Groups** section to limit the definition to the Demo Material Y<ID> as follows

Field	Value
No.	1
Tablename	P_MATERIAL
Table Group	PIPE_US
Table Detail	Y<ID>

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S.40.21 Geometric Rules

Geometric Rule

Rule	Def. Formula	Short Comment	Comment
XX_RC	P_DUMMY	Demo Rule	Demo Group Part Rule

Commodity Relation by Rule

Geometric Rule Definition

No.	Group	Part	Commodity Code	Geometric	Formula	Ident
1	XX_GRP_RC	XX_PART_RC		X_RC_BI_1NPS_1St	P_DUMMY	<input checked="" type="checkbox"/>

Input 1: From 1 To 24

Input 2: From To

Used Tables and Groups

No.	Tablename	Table Group	Table Detail
1	P_MATERIAL	PIPE_US	Y1

- h. Save the changes
- i. In the **Geometric Rule Definition** section click on the **No.** field
- j. Add a new rule to link the Dimensional Standard to the Part, by clicking on the **New Record** icon and entering the following values

Section	Field	Value
Geometric Rule Definition		
	No.	1001
	Group	XX_GRP_<Init>
	Part	XX_PART_<Init>
	Geometric	P_PPP_DSTD_B36_19
	Formula	P_DUMMY
	Ident	Not Checked
Used Tables and Groups		
	No.	1
	Tablename	P_DIM_STD
	Table Group	PIP_US
	Table Detail	BR

S.40.21 Geometric Rules

Geometric Rule

Rule	Def. Formula	Short Comment	Comment
XX_RC	P_DUMMY	Demo Rule	Demo Group Part Rule

Commodity Relation by Rule

Geometric Rule Definition

No.	Group	Part	Commodity Code	Geometric	Formula	Ident
1001	XX_GRP_RC	XX_PART_RC		P_PPP_DSTD_B36_19	P_DUMMY	<input type="checkbox"/>

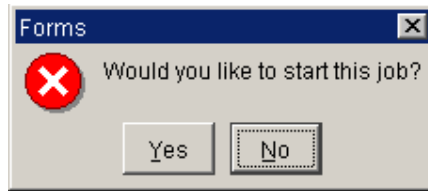
Input 1: From 1 To 24

Input 2: From To

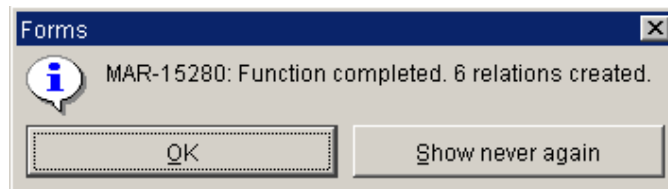
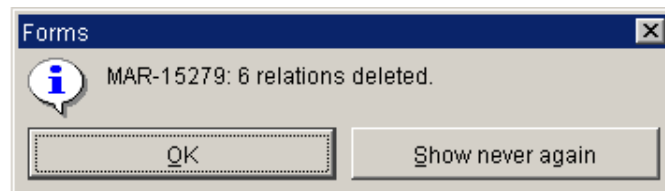
Used Tables and Groups

No.	Tablename	Table Group	Table Detail
1	P_DIM_STD	PIP_US	BR

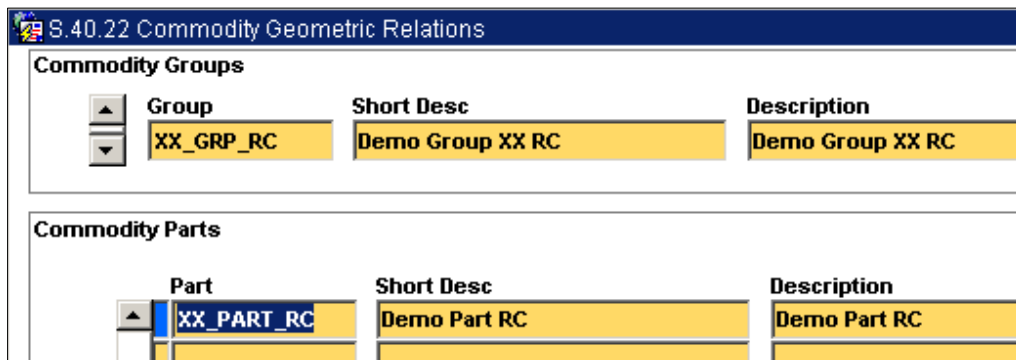
- k. Save the changes
- l. Click on the **Commodity Relation** button to recreate all the Commodity Geometric Relationships associated with this **Group / Part**. Click **Yes** to start the job.



- m. The system will display messages indicating the number of relationships deleted and created. Note any relationships created manually will not be deleted.



- n. Close all screens
- o. Click on **"S.40.22 Commodity Geometric Relations"** to view the new relationships that have been created.
- p. Ensure you are in the **Query Entry** mode and search for the **Group XX_GRP_<Init>**
- q. In the **Commodity Parts** section system will display the parts associated with this group as shown below.



- r. Click on the **Go To Next Block** to view **"S.40.22 Commodity Geometric Relations: Window 2"**

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- s. System will display the **Commodity Code XX_BREAY<ID>AAG** along with the first relationship to the **Geometric X_<Init>_BI_1NPS_1CSH**. Note the **Ident** and **Manual** checkboxes are checked indicating that this relationship was manually created and will be used to build idents.

S.40.22 Commodity Geometric Relations: Window 2

Commodity Code	Short Desc				
XXX_BRBEAY1AAG	Demo Part RC , B36.19M , BE Demo Material Y1 ,				

Date/Time created	Geometric	Project/PG	From	Input 1
22-JAN-2009 14:09:31	X_RC_BI_1NPS_1CSH	SDB	.5	
<input checked="" type="checkbox"/> Ident?	<input checked="" type="checkbox"/> Manual?		To	24

Geom Details

Unit System	Nps1	Sch1	Input 3	Input 4	Input 5
IMP/MET	1	S-XS	0	0	0
IMP/MET	2	S-XS	0	0	0
IMP/MET	3	S-XS	0	0	0
IMP/MET	4	S-XS	0	0	0
IMP/MET	6	S-XS	0	0	0

- t. In the middle section which displays Geometric, **click** on the **down arrow** of the scroll bar to see the system generated relationships tying the OD to the commodity based on the size schedule

S.40.22 Commodity Geometric Relations: Window 2

Commodity Code	Short Desc				
XXX_BRBEAY1AAG	Demo Part RC , B36.19M , BE Demo Material Y1 , SMLS				

Date/Time created	Geometric	Project/PG	From	Input 1	Input
26-JAN-2009 07:06:09	P_PPP_DSTD_B36	SDB	1		
<input type="checkbox"/> Ident?	<input type="checkbox"/> Manual?		To	24	

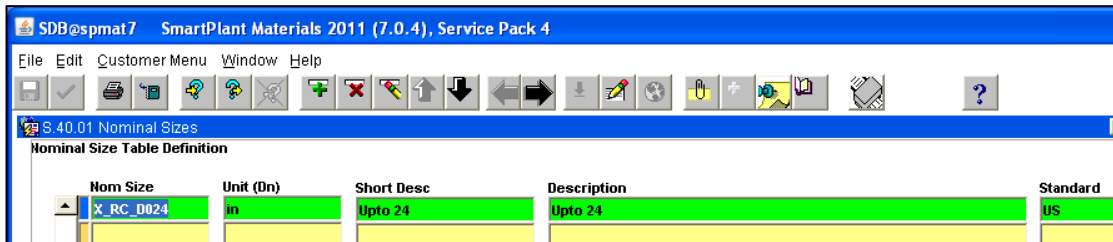
Geom Details

Unit System	Nps1	Sch1	Input 3	Input 4	Input 5	P_Pipe_Od1
IMP/MET	1	0	0	0	0	1.315
IMP/MET	1.25	0	0	0	0	1.66
IMP/MET	1.5	0	0	0	0	1.9
IMP/MET	2	0	0	0	0	2.375
IMP/MET	2.5	0	0	0	0	2.875
IMP/MET	3	0	0	0	0	3.5
IMP/MET	3.5	0	0	0	0	4
IMP/MET	4	0	0	0	0	4.5
IMP/MET	5	0	0	0	0	5.563
IMP/MET	6	0	0	0	0	6.625
IMP/MET	8	0	0	0	0	8.625

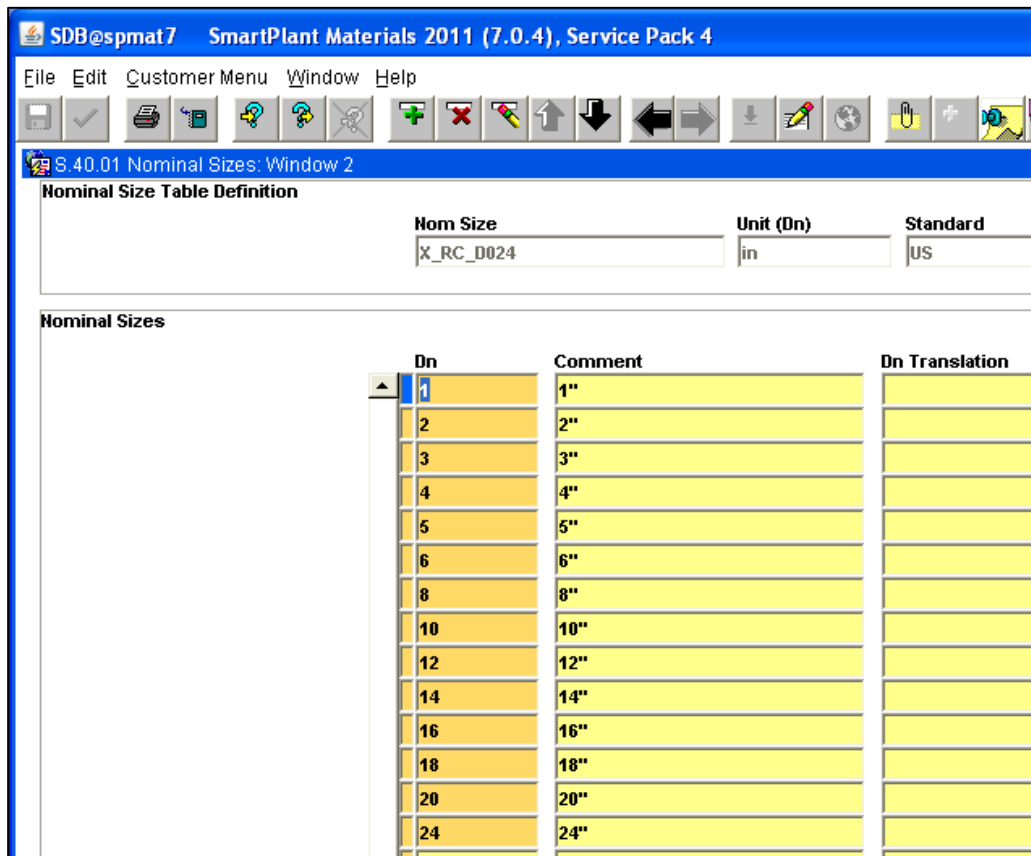
- u. Close all screens

Lab 16. Extending the SDB – Build a new Nominal Sizes Table

- a. Launch **"S.40.01 Nominal Sizes"** to create a new Nominal Size table
- b. Ensure you are in the **Data Entry (Green Background)** mode and not the **Query Mode**
- c. Type **X_<Init>_D024** in the **Nom Size** field and **Unit** as **in**
- d. Type in a **Description** of **Upto 24 in** and select **Standard** of **US** from **LOV**.



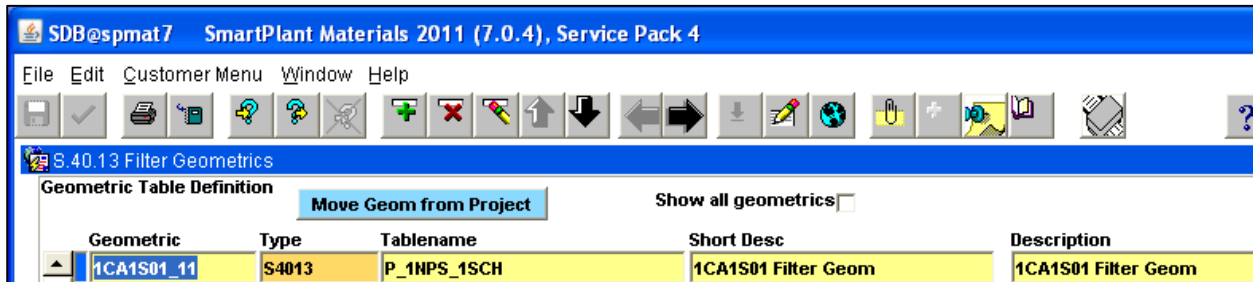
- e. Save the changes
- f. Click on the **Go To Next Block** Icon to move to **"S.40.01 Nominal Sizes: Window 2"** to enter the valid nominal sizes.
- g. Enter sizes shown below and save the changes



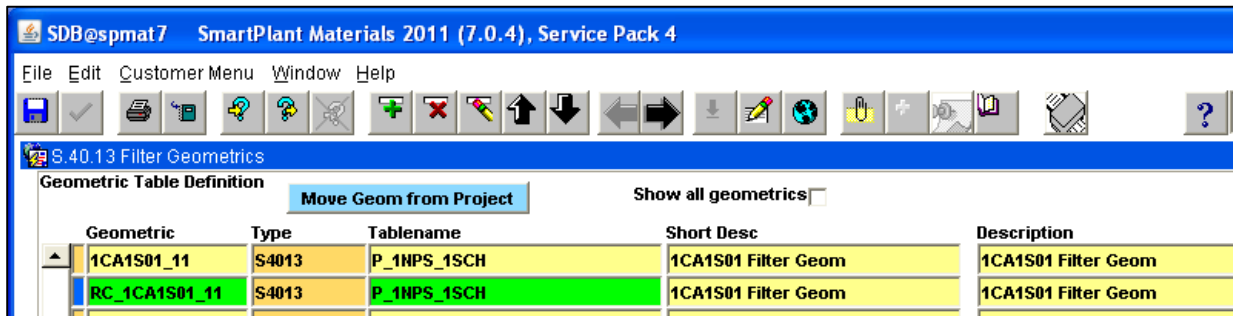
- h. Close all the screens

Lab 17. Extending the SDB – Copy Spec Filter

- a. Launch **“S.40.13 Filter Geometrics”** to create a spec filter
- b. Ensure you are in the **Query Mode** and search for the filter **1CA1S01_11**

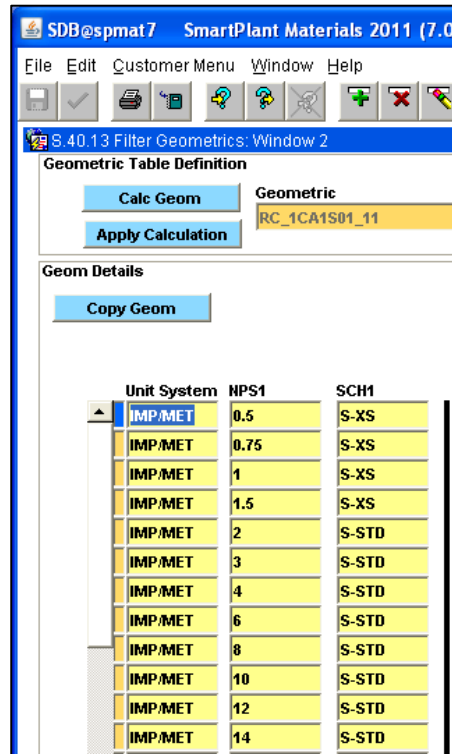


- c. Click on the first blank row and **Duplicate above record** by pressing **F4**. The system will duplicate the previous row details.
- d. Change the name of the Spec Filter **Geometric** to **<Init>_1CA1S01_11**

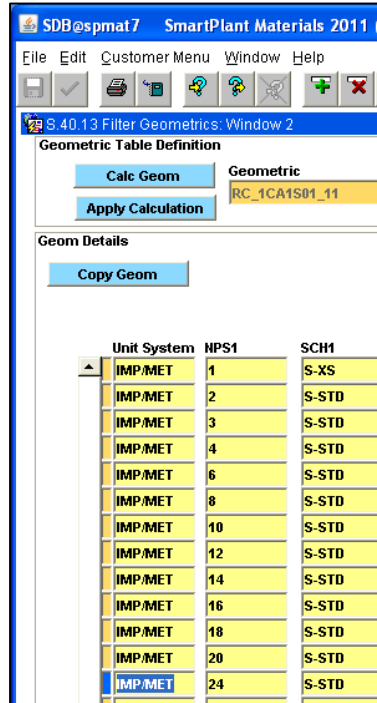


- e. Save the changes.
- f. Click on the **Go to Next Block** icon to specify the valid Size / Schedule combination in the **“S.40.13 Filter Geometrics: Window 2”**. The system will display all the size / schedule combinations from the geometric **1CA1S01_11** as it did a deep copy.

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g. **Delete** the following sizes **.5, .75, 1.5, 2.5** and **all sizes above 24** as shown below.

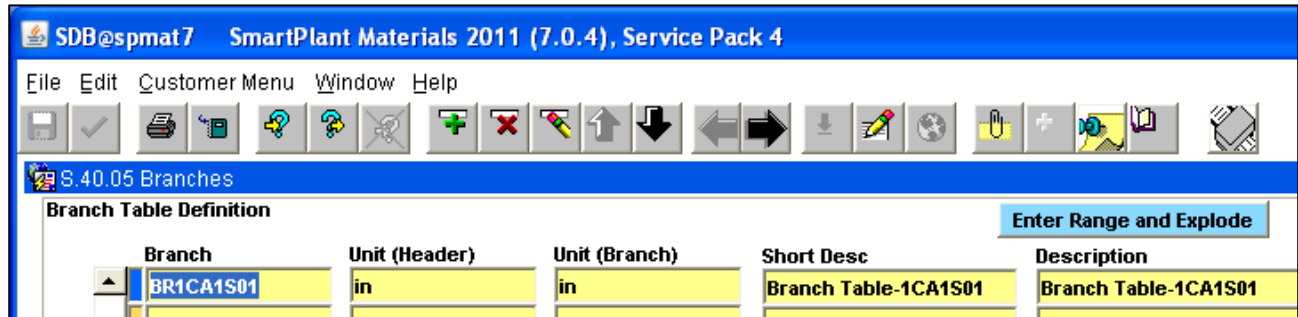


h. Save the changes

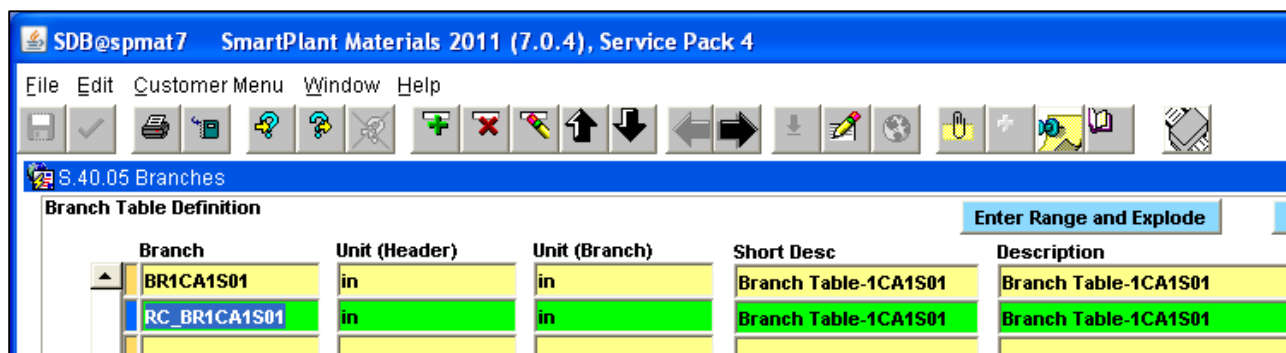
i. Close all screens

Lab 18. Extending the SDB – Copy Branch Filter

- Launch **“S.40.05 Branches”**
- Ensure you are in the **Query Mode** and search for the filter **BR1CA1S01**



- Click on the first blank row and **Duplicate above record** by pressing **F4**. The system will duplicate the previous row details.
- Change the name of the **Branch** to **<Init>_BR1CA1S01**



- Save the changes
- Click on the **Go to Next Block** icon to specify the valid Size / Schedule combination in the **“S.40.05 Branches: Window 2”**
- The system will display all the Header & Branch sizes with corresponding Parts from the branch table **BR1CA1S01** as it performed a deep copy.

SPRD Training Labs

SDB@spmat7 SmartPlant Materials 2011 (7.0.4), Service Pack 4

File Edit Customer Menu Window Help

S.40.05 Branches: Window 2

Branch Table Definition

Branch	Unit (Header)	Unit (Branch)	Standard
RC_BR1CA1S01	in	in	US

Branch Chart Order by DN B

Enter Range and Explode Export to S

Header/ Branches

Pref	Dn Header	Dn Branch	Group	Part	Short Desc	Break Type
1	.5	.5	0	ETE	%	STANDARD
1	.75	.5	0	RTE	%	STANDARD
1	.75	.75	0	ETE	%	STANDARD
1	1	.5	0	RTE	%	STANDARD
1	1	.75	0	RTE	%	STANDARD
1	1	1	0	ETE	%	STANDARD
1	1.5	.5	0	RTE	%	STANDARD
1	1.5	.75	0	RTE	%	STANDARD
1	1.5	1	0	RTE	%	STANDARD
1	1.5	1.5	0	ETE	%	STANDARD
1	2	.5	0	SOC	%	STANDARD
1	2	.75	0	SOC	%	STANDARD

- h. Press **F7** to **Enter Query** mode and search for header size with fractions by typing in **%.%** in the **Dn Header** field and **Run the Query**.

SDB@spmat7 SmartPlant Materials 2011 (7.0.4), Service Pack 4

File Edit Customer Menu Window Help

S.40.05 Branches: Window 2

Branch Table Definition

Branch	Unit (Header)	Unit (Branch)	Standard
RC_BR1CA1S01	in	in	US

Enter

Header/ Branches

Pref	Dn Header	Dn Branch	Group	Part	Short Desc
	%.%				

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- i. System will display all the branches with fractional header sizes

The screenshot shows the 'S.40.05 Branches: Window 2' dialog box. The 'Branch Table Definition' section has the following fields: Branch (RC_BR1CA1S01), Unit (Header) (in), Unit (Branch) (in), and Standard (US). There are buttons for 'Branch Chart', 'Order by', 'Enter Range and Explode', and 'Export'. Below this is the 'Header / Branches' table.

Pref	Dn Header	Dn Branch	Group	Part	Short Desc	Break Type
1	.5	.5	0	ETE	%	STANDARD
1	.75	.5	0	RTE	%	STANDARD
1	.75	.75	0	ETE	%	STANDARD
1	1.5	.5	0	RTE	%	STANDARD
1	1.5	.75	0	RTE	%	STANDARD
1	1.5	1	0	RTE	%	STANDARD
1	1.5	1.5	0	ETE	%	STANDARD

- j. **Delete** all the branch details
- k. Save the changes
- l. Press **F7** to **Enter Query** mode and search for header size with fractions by typing in **%.%** in the **Dn Branch** field and **Run the Query**.

The screenshot shows the same 'S.40.05 Branches: Window 2' dialog box. In the 'Header / Branches' table, the 'Dn Branch' field for the first row is now set to '%%'. The 'Branch Table Definition' section remains the same.

Pref	Dn Header	Dn Branch	Group	Part	Short Desc
1		%%			

SPRD Training Labs

m. System will display all the fractional branch sizes

Branch Table Definition

Branch	Unit (Header)	Unit (Branch)	Standard
RC_BR1CA1S01	in	in	US

Header/ Branches

Pref	Dn Header	Dn Branch	Group	Part	Short Desc
1	1	.5	0	RTE	%
1	1	.75	0	RTE	%
1	2	.5	0	SOC	%
1	2	.75	0	SOC	%
1	2	1.5	0	SOC	%
1	3	.5	0	SOC	%
1	3	.75	0	SOC	%
1	3	1.5	0	SOC	%
1	4	.5	0	SOC	%
1	4	.75	0	SOC	%
1	4	1.5	0	SOC	%
1	6	.5	0	SOC	%
1	6	.75	0	SOC	%

n. **Delete** all the branch details and Save the changes

o. Press **F8** to **Run the Query** and retrieve all branch details. Scroll to the bottom of the list and **delete** all header and branch sizes **greater than 24"**.

p. Save the changes.

Branch Table Definition

Branch	Unit (Header)	Unit (Branch)	Standard
RC_BR1CA1S01	in	in	US

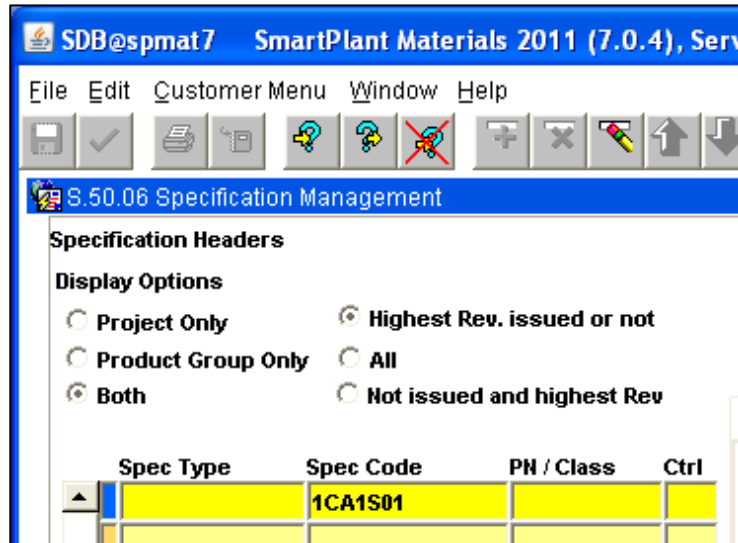
Header/ Branches

Pref	Dn Header	Dn Branch	Group	Part	Short Desc	Break Type
1	20	8	B	WEL	%	STANDARD
1	20	10	B	WEL	%	STANDARD
1	20	12	B	RPA	%	STANDARD
1	20	14	B	RPA	%	STANDARD
1	20	16	B	RPA	%	STANDARD
1	20	18	B	RPA	%	STANDARD
1	20	20	B	TEE	%	STANDARD
1	24	1	O	SOC	%	STANDARD
1	24	2	B	WEL	%	STANDARD
1	24	3	B	WEL	%	STANDARD
1	24	4	B	WEL	%	STANDARD
1	24	6	B	WEL	%	STANDARD
1	24	8	B	WEL	%	STANDARD
1	24	10	B	WEL	%	STANDARD
1	24	12	B	RPA	%	STANDARD
1	24	14	B	RPA	%	STANDARD
1	24	16	B	RPA	%	STANDARD
1	24	18	B	RPA	%	STANDARD
1	24	20	B	RPA	%	STANDARD
1	24	24	B	TEE	%	STANDARD

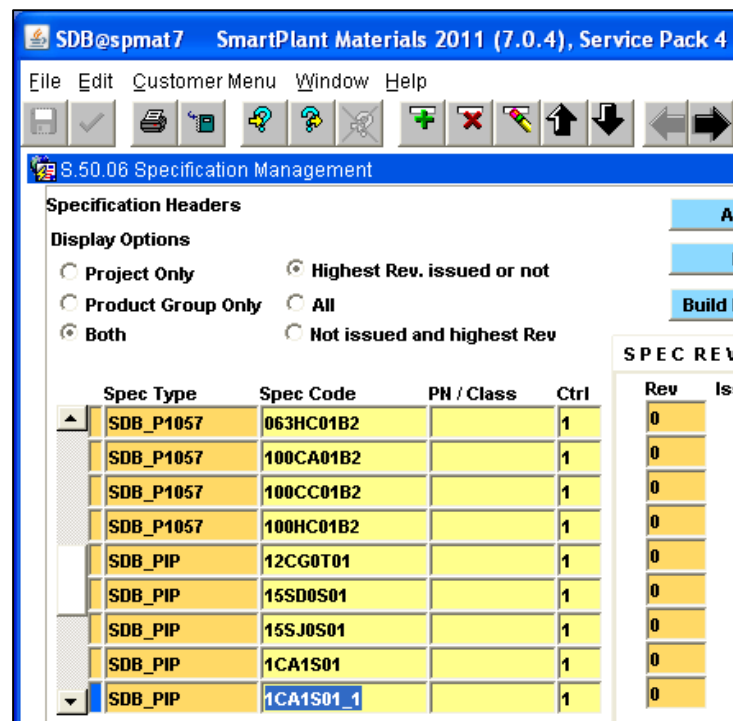
q. Close all screens

Lab 19. Copy a Specification 1CA1S01

- Launch **"S.50.06 Specification Management"**
- Ensure you are in the **Query Mode** and search for the Spec **1CA1S01**

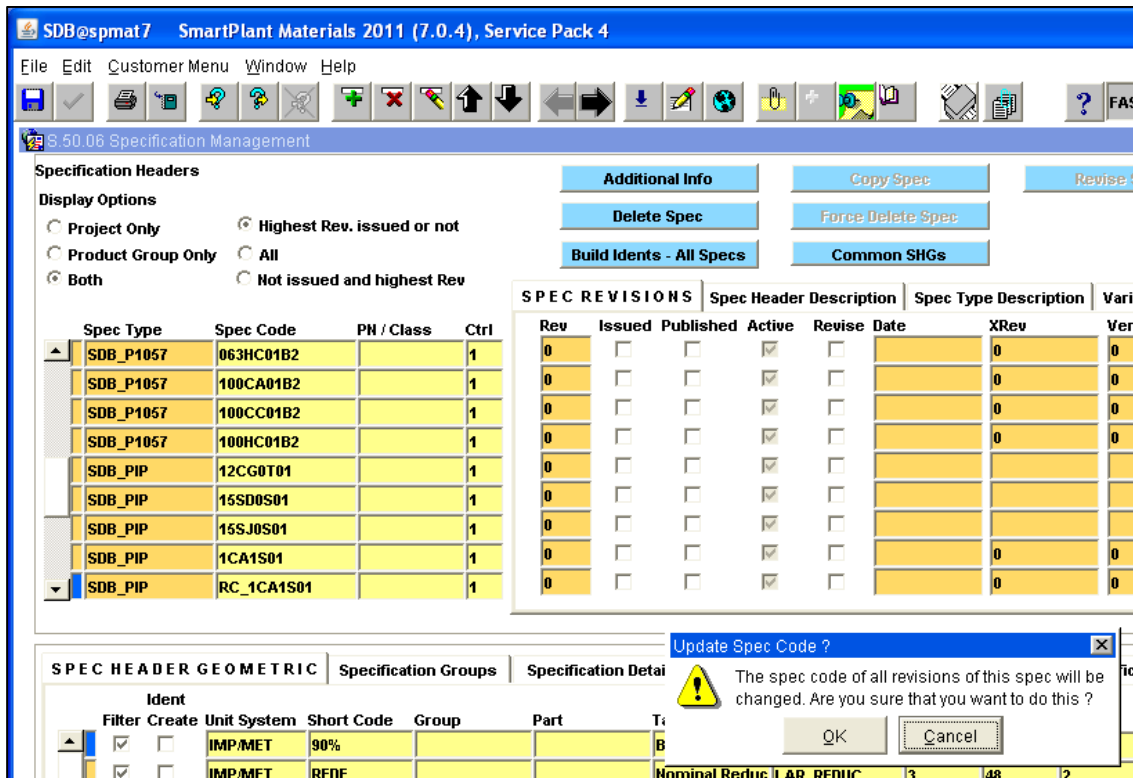


- Create a **new record** by pressing **F6** and **Duplicate above record** by pressing **F4**. The system will copy the spec and refresh the screen.
- Scroll** down till you find the spec **1CA1S01_1**
 - Note: If multiple users perform this step at the same time, your spec will be assigned the next number i.e. 1CA1S01_1, 1CA1S01_2, 1CA1S01_3 etc.*

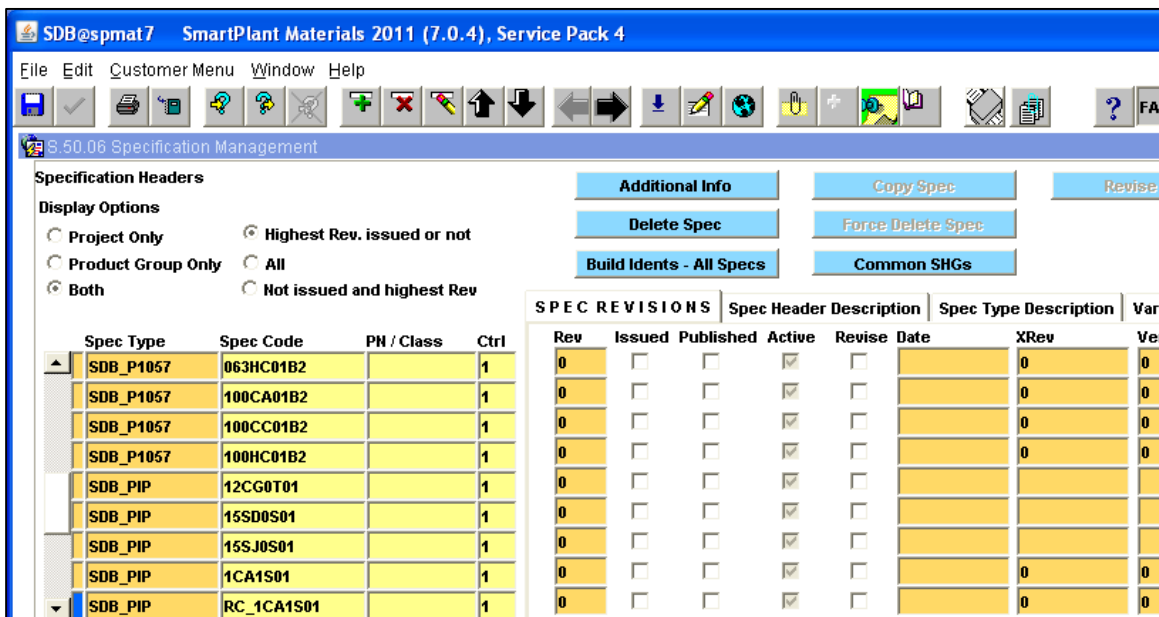


SPRD Training Labs

- e. Change the name of the **Spec** to <Init>_1CA1S01
- f. The system will prompt you with a message indicating that all the revisions will be renamed.



- g. Click **Ok**.



SPRD Training Labs

- h. In the **Spec Header Geometric** tab change the **Branches Table Name** to **<Init>_BR1CA1S01** and size range **.5 – 24, .5 – 24**. Check the **Filter** checkbox.

▼		SDB_PIP	RC_1CA1S01		1	0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		0	0
SPEC HEADER GEOMETRIC														
Specification Groups														
Specification Details														
Specification Notes														
Specification Limits														
Specification Symbols														
Ident														
Filter Create		Unit System	Short Code	Group	Part	Table Type	Table Name	From1	To1	From2	To2	Ctrl		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IMP/MET	90%		Branches	RC_BR1CA1S01	.5	24	.5	24	1		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IMP/MET	REDE		Nominal Reduc	LAR_REduc	3	48	2	42	1		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IMP/MET	REDC		Nominal Reduc	LAR_REduc	3	48	2	42	1		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IMP/MET	WOL		Nominal Reduc	OLETS	2	48	.5	42	1		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IMP/MET	TOL		Nominal Reduc	OLETS	2	48	0.5	42	1		

- i. Similarly change the nominal sizes table to **X_<Init>_D024** and size range **1 – 24**.

SDB_PIP

RC_1CA1S01

1

0

☐

☐

☒

☐

0

0

SPEC HEADER GEOMETRIC

Specification Groups

Specification Details

Specification Notes

Specification Limits

Specification Symbols

Ident

Filter Create

Unit System

Short Code

Group

Part

Table Type

Table Name

From1

To1

From2

To2

Ctrl

☒

☐

IMP/MET

SWGE

Nominal Reduc

SML_REduc

0.75

2

0.5

1.5

1

☒

☐

IMP/MET

SWGC

Nominal Reduc

SML_REduc

.75

2

.5

1.5

1

☒

☐

IMP/MET

CPLR

Nominal Reduc

SML_REduc

0.75

2

0.5

1.5

1

☒

☐

IMP/MET

%

Nominal Sizes

X_RC_D024

.5

24

1

☒

☐

IMP/MET

%

User defined

1CA1S01_11

.5

48

1

- j. Change the spec filter **1CA1S01_11** to limit the size schedule combinations for all components in the spec by changing the **Table Name** to **<Init>_1CA1S01_11** and size range to **.5 – 6**.

▼		SDB_PIP	RC_1CA1S01	1	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	0	
SPEC HEADER GEOMETRIC												
Specification Groups				Specification Details			Specification Notes		Specification Limits		Specification Symbols	
Ident												
Filter Create		Unit System	Short Code	Group	Part	Table Type	Table Name	From1	To1	From2	To2	Ctrl
▲	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IMP/MET	SWGE		Nominal Reduc	SML_REduc	0.75	2	0.5	1.5	1
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IMP/MET	SWGC		Nominal Reduc	SML_REduc	.75	2	.5	1.5	1
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IMP/MET	CPLR		Nominal Reduc	SML_REduc	0.75	2	0.5	1.5	1
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IMP/MET	%		Nominal Sizes	X_RC_D024	.5	24			1
▼	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IMP/MET	%		User defined	RC_1CA1S01_11	.5	6			1

- k. Save the changes

SPRD Training Labs

- l. Click on the **Specification Groups** tab and verify the entries are as below

Seq	Table Name	Group
1	P_FLUID_CODE	ALL
2	P_RATING_CLASS	ANSI
3	P_TEMP_LIMIT	ALL
4	P_CORR_ALLOWANCE	ALL
5	P_MATERIAL_TYPE	ANSI
6	P_DESIGN_CODE	ANSI
7	P_STRESS_RELIEF	ANSI
8	P_EXAMINATION	ANSI

S.50.06 Specification Management

Specification Headers

Display Options

☐ Project Only ☒ Highest Rev. issued or not
☐ Product Group Only ☐ All
☒ Both ☐ Not issued and highest Rev

Additional Info
Delete Spec
Build Idents - All Specs

Spec Type	Spec Code	PN / Class	Ctrl	Rev	Issued	Published	Active
SDB_PIP	1CA1S01		1	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SDB_PIP	RC_1CA1S01		1	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Spec Header Geometric **SPECIFICATION GROUPS** Specification Details Specification

Seq	Tablename	Group	Description
1	P_SERVICE	ALL	Service
2	P_RATING_CLASS	ANSI	Rating Class - ANSI
3	P_TEMP_LIMIT	ALL	Temperature Limits
4	P_MATERIAL_TYPE	ANSI	Type of Material
5	P_DESIGN_CODE	ANSI	ANSI DESIGN CODES

- m. Click on the **Specification Details** tab and verify the entries are as below

Seq	Table Name	Group	Detail
1	P_FLUID_CODE	ALL	AA
2	P_RATING_CLASS	ANSI	AA
3	P_TEMP_LIMIT	ALL	EN
4	P_CORR_ALLOWANCE	ALL	AA
5	P_MATERIAL_TYPE	ANSI	C8
6	P_DESIGN_CODE	ANSI	AE
7	P_STRESS_RELIEF	ANSI	AB
8	P_EXAMINATION	ANSI	AA

S.50.06 Specification Management

Specification Headers

Display Options

☐ Project Only ☒ Highest Rev. issued or not
☐ Product Group Only ☐ All
☒ Both ☐ Not issued and highest Rev

Buttons: Additional Info, Copy Spec, Delete Spec, Force Delete Spec, Build Idents - All Specs, Common SHGs

Spec Type	Spec Code	PN / Class	Ctrl	SPEC REVISIONS				Spec Header Description	Spec
				Rev	Issued	Published	Active	Revise	Date
SDB_PIP	1CA1S01		1	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SDB_PIP	RC_1CA1S01		1	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Spec Header Geometric | Specification Groups | SPECIFICATION DETAILS | Specification Notes | Specification Limits

Seq	Tablename	Group	Detail	Short Desc
1	P_SERVICE	ALL	AA	Process
2	P_RATING_CLASS	ANSI	AA	150, ASME B16.5a - 1998
3	P_TEMP_LIMIT	ALL	EH	-50F to 650F (Note 09)
4	P_MATERIAL_TYPE	ANSI	C8	Impact Tested Carbon Steel
5	P_DESIGN_CODE	ANSI	AE	ASME B31.3-2002

- n. Save the changes
- o. Click on the **Specification Notes** tab and add the predefined note **170** at the header level, using the **LOV**. This **Note** field represents the sequence in which the notes will be printed.

SDB@spmat7 SmartPlant Materials 2011 (7.0.4), Service Pack 4

File Edit Customer Menu Window Help

S.50.06 Specification Management

Specification Headers

Display Options

☐ Project Only ☒ Highest Rev. issued or not
☐ Product Group Only ☐ All
☒ Both ☐ Not issued and highest Rev

Buttons: Additional Info, Copy Spec, Delete Spec, Force Delete Spec, Build Idents - All Specs, Common SHGs, Revise Spec

Spec Type	Spec Code	PN / Class	Ctrl	SPEC REVISIONS				Spec Header Description	Spec Type Description	Variable
				Rev	Issued	Published	Active	Revise	Date	XRev
SDB_PIP	1CA1S01		1	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		0
SDB_PIP	RC_1CA1S01		1	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		0
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Spec Header Geometric | Specification Groups | Specification Details | SPECIFICATION NOTES | Specification Limits | Specification

Note Code	Description	This Note	Ctrl
15	These valves shall be used if mating to flanged nozzles.	15	1
170	These items should be qualified for use in this specification in accordance with ASME B31.3 Paragraph. 304.7.2.	17	1
59	Branch weld shall be used with R-Pad if the minimum wall thk of the header at branch location exceeds xxx where xxx equals the wall thk value for the	59	1

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- p. Save the changes
- q. Click on the **Specification Limits** tab and specify the Pressure / Temperature details as follows

Pressure	Unit	Temperature	Unit
100	PSIG	650	F
150	PSIG	600	F
200	PSIG	500	F
250	PSIG	400	F
300	PSIG	-50	F

Specification Headers

Display Options

☐ Project Only ☒ Highest Rev. issued or not
☐ Product Group Only ☐ All
☒ Both ☐ Not issued and highest Rev

Additional I
Delete Sp
Build Idents - A

Spec Type	Spec Code	PN / Class	Ctrl
SDB_PIP	1CA1S01		1
SDB_PIP	RC_1CA1S01		1

SPEC REVISIONS

Rev	Issued	Pub
0	<input type="checkbox"/>	<input type="checkbox"/>
0	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

Specification Details

Pressure	Unit (Press)	Temp	Unit (Temp)	Comments
100	PSIG	650	F	
150	PSIG	600	F	
200	PSIG	500	F	
250	PSIG	400	F	
300	PSIG	-50	F	

- r. Save the changes

SPRD Training Labs

- s. Click on the Report Icon and **Select the Report S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available).

A.30.06.01 Attached Menu Reports

Menu Item	Item Label	
S50R07	S.50.R.07 Spec Items with Idents	Select Report
S50R07L	S.50.R.07L Spec Items List	Select Report
S50R10	S.50.R.10 Piping Class Index	Select Report
S50R11	S.50.R.11 Piping Class	Select Report
S50R14	S.50.R.14 Spec Compare	Select Report
S50RUS03	S.50.RUS.03 PIP Spec Report	Select Report
		Select Report

- t. From the **LOV** for **Spec Code** select your spec **<Init>_1CA1S01** and click on the **Start Report** button.

A.60.71 Start Reports

Menu Items

Menu Item	Item Name
S50RUS03	S.50.RUS.03 PIP Spec Report

Run Options

Execution Mode: **Online**

Parameter: ☐ Suppress Cover ☐ Table Of Content

Comment:

Process Status: **NEW**

Run Parameter

Parameter	Value	Value Description	Change allowed
Destype	Cache		<input checked="" type="checkbox"/>
Desformat	pdf		<input checked="" type="checkbox"/>
Name of the report	S50RUS03.pdf		<input checked="" type="checkbox"/>
Spec Code	RC_1CA1S01	PIP PH01CA1S01	<input checked="" type="checkbox"/>
Spec Code / Rev.	0	0	<input checked="" type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Buttons: Save Settings, Parameter Info, Start Report

Footer: Rec-Owner: SDB, SPRDSDB, SDB, SDB, PIPING, US, English, Revision OFF

- u. System should display a pdf file showing the Spec header details, Pressure / Temperature Ratings, Branch Table and Notes.

Temp.	-50 F	400 F	500 F	600 F	650 F
Press.	300 PSIG	250 PSIG	200 PSIG	150 PSIG	100 PSIG

NOTES:

Legend and chart

Branchtable: RC BR1CA

Legend:

WEL	Weldolet
RPA	Reinforcing Pad
ETE	Equal Tee
RWE	Reinforcing Weld
SOC	Sockolet
TEE	Equal Tee

	24	TEE												
	20	RPA	TEE											
	18	RPA	RPA	TEE										
	16	RPA	RPA	RPA	TEE									
	14	RPA	RPA	RW	RW	TEE								
B R A N C H				E	E									
	12	RPA	RPA	RW	RW	RW	TEE							
				E	E	E								
	10	WE	WE	RW	RW	RW	RW	TEE						
		L	L	E	E	E	E							
	8	WE	WE	RW	RW	RW	RW	RW	TEE					
		L	L	E	E	E	E	E						
	6	WE	WE	RW	RW	RW	RW	RW	RW	TEE				
		L	L	E	E	E	E	E	E					
	4	WE	WE	RW	RW	RW	RW	RW	RW	RW	TEE			
		L	L	E	E	E	E	E	E	E				
	3	WE	WE	RW	RW	RW	RW	RW	RW	RW	RW	TEE		
		L	L	E	E	E	E	E	E	E				
	2	WE	WE	RW	RW	RW	RW	RW	RW	RW	RW	RW	TEE	
		L	L	E	E	E	E	E	E	E	E	E		
1	SOC	SOC	SOC	SOC	SOC	SOC	SOC	SOC	SOC	SOC	SOC	SOC	ETE	
	24	20	18	16	14	12	10	8	6	4	3	2	1	

HEADER

- v. Close all the screens

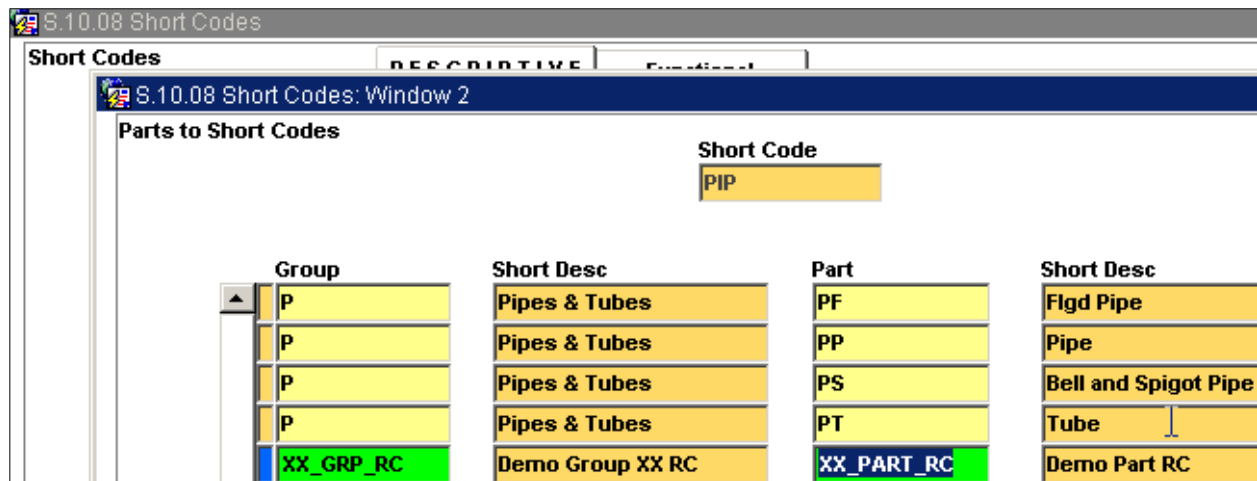
Lab 20. Extending the SDB - Add new Group / Part to Short Code

- a. Launch **"S.10.08 Short Codes"** to view the Short Codes
- b. Ensure you are in the **query** mode
- c. Search for the **Short Code PIP** and **Run the query**



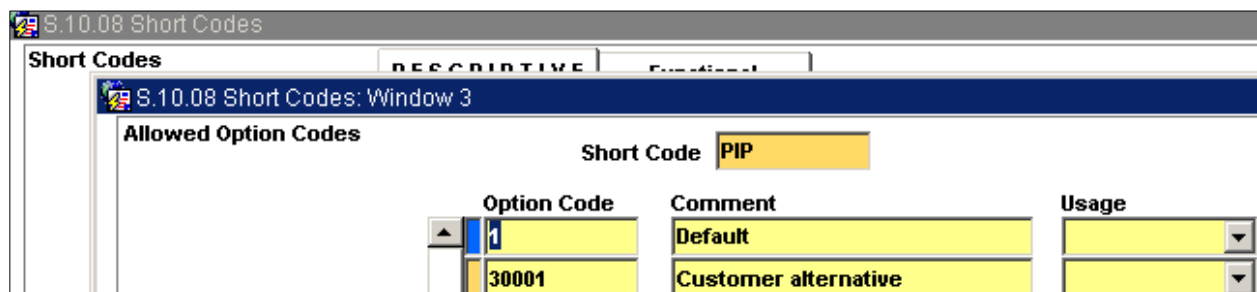
S.10.08 Short Codes		
Short Codes	DESCRIPTIVE	Functional
Short Code	Short Desc	Description
PIP	Piping	Piping

- d. Click on the **Go To Next Block** Icon to view **"S. 10.08 Short Codes Window 2"**
- e. Add a new row with **Group XX_GRP_<Init>** and **Part XX_PART_<Init>**
- f. Save the changes



S.10.08 Short Codes: Window 2			
Parts to Short Codes			
Short Code			
PIP			
Group	Short Desc	Part	Short Desc
P	Pipes & Tubes	PF	Flgd Pipe
P	Pipes & Tubes	PP	Pipe
P	Pipes & Tubes	PS	Bell and Spigot Pipe
P	Pipes & Tubes	PT	Tube
XX_GRP_RC	Demo Group XX RC	XX_PART_RC	Demo Part RC

- g. Click on the **Go To Next Block** Icon to view **"S. 10.08 Short Codes Window 3"**, which shows the list of allowed option codes for the short code PIP.



S.10.08 Short Codes: Window 3		
Allowed Option Codes		
Short Code		
PIP		
Option Code	Comment	Usage
1	Default	
30001	Customer alternative	

- h. Close all the screens

Lab 21. Add items to the Spec

- a. Launch **"S.50.06 Specification Management"** and **enter the query mode**
- b. Search for the spec you created by typing in **<Init>_1CA1S01** in the Spec Code and **Running the query**

S.50.06 Specification Management

Specification Headers

Display Options

☐ Project Only ☒ Highest Rev. issued or not
☐ Product Group Only ☐ All
☒ Both ☐ Not issued and highest Rev

Spec Type	Spec Code	PN / Class	Ctrl
SDB_PIP	1CA1S01		1
SDB_PIP	RC_1CA1S01		1

- c. Double Click on the **Spec Code** to add the Items
 - i. FYI: Spec Items consists of a combination of **Short Code, Group, Part** and **Commodity Code**. Specify a valid **Option Code** if you want to use different commodity codes for the same Short Code / Size combination.
 - ii. FYI: It is a good idea to add items with **Seq** in multiples of **10**, to allow addition of items in the future.
- d. Click on the **New Record** in the **Specification Items** section and add an item to the spec with **Seq = 1**, **Short Code = PIP**, **Group = XX_GRP_<Init>** and **Part = XX_PART_<Init>**

S.50.06 Specification Management: Window 2

Specification Headers

Spec Type: SDB_SPECS

Spec Code: RC_1CA1S01

☐ Enable Spec Compare

SPEC DESCRIPTION

Short Desc: Class 150, CS

Description: Class 150, Carbon

Missing Idents

Specification Items

Create Functional

Seq	Short Code	Group	Part	Option	Commodity
10	PIP	XX_GRP_RC	XX_PART_RC	431	

LAYOUT

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- e. In the **Layout** tab, click on the **Commodity code** field and press **F9** to open the **LOV**. Search for the pipe you created earlier by **clicking** in the **Group** field of the **P_MATERIAL** table and setting the **Group = PIPE_US** and **Table Detail = Y<ID>**

Tablename	Group	Table Detail
P_DIM_STD	%	%
P_END_PREP	%	%
P_MATERIAL	PIPE_US	Y1
P_MAT_SYSTEM	%	%
P_ALIAS	%	%

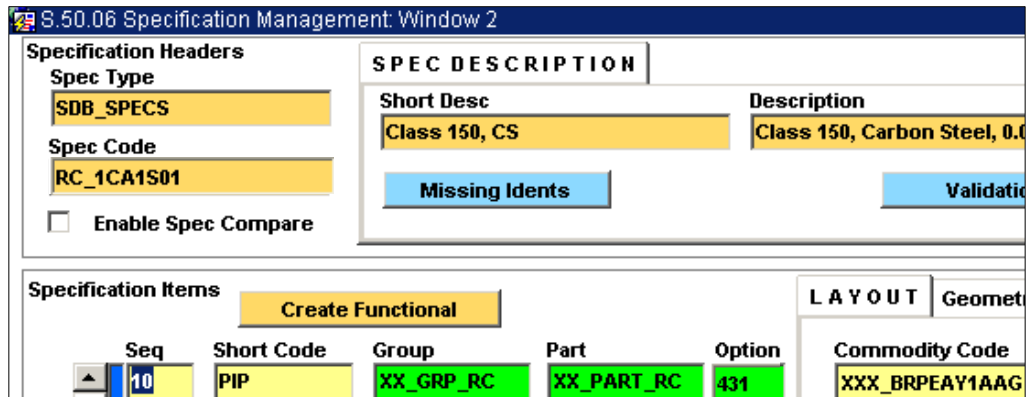
Commodity Code	Description

- f. **Click** the **Find** button to search for matching commodity codes. System should display the two commodities you created in the previous labs.

Tablename	Group	Table Detail	Required	Link
P_DIM_STD	PIP_US	BR	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P_END_PREP	PIPE	PE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P_MATERIAL	PIPE_US	Y1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P_MAT_SYSTEM	US	A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P_ALIAS	PIPE_US	AAG	<input type="checkbox"/>	<input type="checkbox"/>

Commodity Code	Description
XXX_BRBEAY1AAG	Demo Part RC , ASME B36.19M , Bevel End Demo Material Y1 , Seamless
XXX_BRPEAY1AAG	Demo Part RC , ASME B36.19M , Plain End Demo Material Y1 , Seamless

- g. Select the **Plain End** pipe and click the **OK** button to add it to the spec.



S.50.06 Specification Management: Window 2

Specification Headers

Spec Type: SDB_SPECS

Spec Code: RC_1CA1S01

☐ Enable Spec Compare

SPEC DESCRIPTION

Short Desc: Class 150, CS

Description: Class 150, Carbon Steel, 0.063\"

Buttons: Missing Idents, Validation

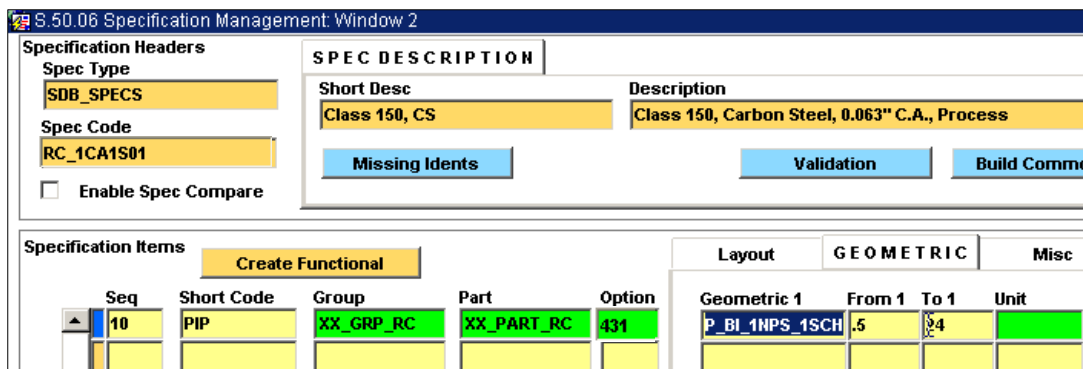
Specification Items

Create Functional

Seq	Short Code	Group	Part	Option	Commodity Code
10	PIP	XX_GRP_RC	XX_PART_RC	431	XXX_BRPEAY1AAG

Layout: LAYOUT, Geomet

- h. Click on the **Geometric** tab and note that the system assigned the **Geometric P_BI_1NPS_1SCH** to the item and a size range of **.5\"**



S.50.06 Specification Management: Window 2

Specification Headers

Spec Type: SDB_SPECS

Spec Code: RC_1CA1S01

☐ Enable Spec Compare

SPEC DESCRIPTION

Short Desc: Class 150, CS

Description: Class 150, Carbon Steel, 0.063\" C.A., Process

Buttons: Missing Idents, Validation, Build Comm

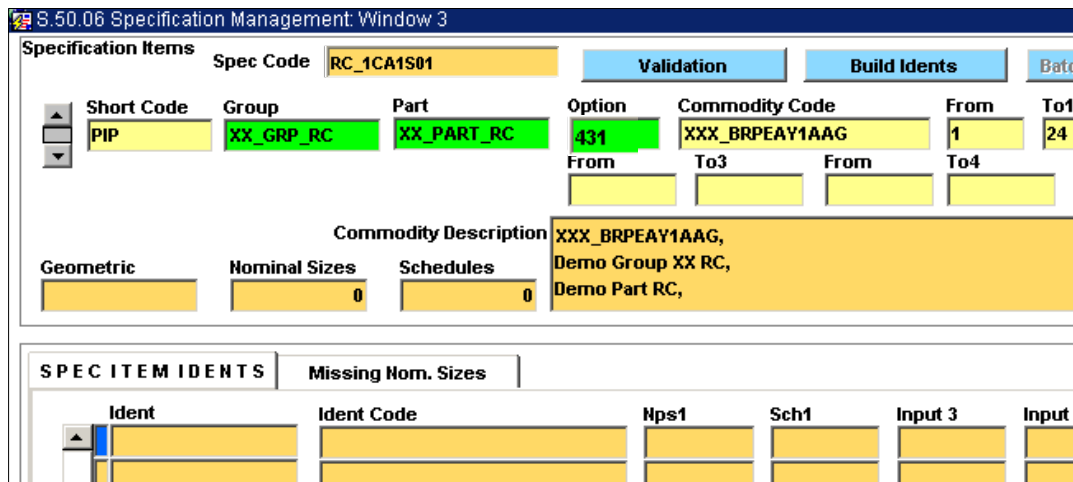
Specification Items

Create Functional

Seq	Short Code	Group	Part	Option	Geometric 1	From 1	To 1	Unit
10	PIP	XX_GRP_RC	XX_PART_RC	431	P_BI_1NPS_1SCH	.5	24	

Layout: Layout, GEOMETRIC, Misc

- i. Save the changes
- j. Click on the **Go To Next Block** Icon to open **“S.50.06 Specification Management Window 3”** screen to view the idents associated with the Spec for the pipe.



S.50.06 Specification Management: Window 3

Specification Items

Spec Code: RC_1CA1S01

Buttons: Validation, Build Idents, Batch

Short Code	Group	Part	Option	Commodity Code	From	To1
PIP	XX_GRP_RC	XX_PART_RC	431	XXX_BRPEAY1AAG	1	24

Buttons: From, To3, From, To4

Commodity Description

XXX_BRPEAY1AAG,
Demo Group XX RC,
Demo Part RC,

Geometric: 0, Nominal Sizes: 0, Schedules: 0

SPEC ITEM IDENT

Missing Nom. Sizes

Ident	Ident Code	Nps1	Sch1	Input 3	Input 4

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- k. Press **F8** to retrieve the Idents. System will display the Idents based on the **Geometrics** table **P_BI_1NPS_1SCH** and size range **.5" to 24"**.

S.50.06 Specification Management: Window 3

Specification Items Spec Code: **RC_1CA1S01** **Validation** **Build Idents** **Batch**

Short Code: **PIP** Group: **XX_GRP_RC** Part: **XX_PART_RC** Option: **431** Commodity Code: **XXX_BRPEAY1AAG** From: **.5** To: **24**

Commodity Description: **XXX_BRPEAY1AAG, Demo Group XX RC, Demo Part RC,**

Geometric: **0** Nominal Sizes: **0** Schedules: **0**

SPEC ITEM IDENT S **Missing Nom. Sizes**

Ident	Ident Code	Nps1	Sch1	Input 3	Input 4
3675225	I3675225	.5	S-XS	0	0
3675227	I3675227	1	S-XS	0	0
3675229	I3675229	1.5	S-XS	0	0
3675235	I3675235	2	S-XS	0	0
3675240	I3675240	3	S-XS	0	0
3675242	I3675242	4	S-XS	0	0
3675243	I3675243	5	S-XS	0	0
3675244	I3675244	6	S-XS	0	0
3675245	I3675245	8	S-XS	0	0

- l. Close the **"S.50.06 Specification Management Window 3"** to return to the **"S.50.06 Specification Management Window 2"** Spec Item screen
- m. In the **Geometric** tab erase the entry in the **Geometric 1** field and set the size range to **1" to 24"**.

S.50.06 Specification Management: Window 2

Specification Headers Spec Type: **SDB_SPECS** Spec Code: **RC_1CA1S01** **Enable Spec Compare**

SPEC DESCRIPTION Short Desc: **Class 150, CS** Description: **Class 150, Carbon Steel, 0.063" C.A., Process**

Missing Idents **Validation** **Build Comm**

Specification Items **Create Functional**

Seq	Short Code	Group	Part	Option	Geometric 1	From 1	To 1	Unit
10	PIP	XX_GRP_RC	XX_PART_RC	431		1	24	in

- n. Save the changes.

- o. Click on the **Go To Next Block** Icon to open the **“S.50.06 Specification Management Window 3”** screen to view the ident's associated with the Spec.
- p. System will display the ident's stored in its memory from the previous query. Press **F8** to refresh the Ident list. Now the system will display only those Ident's that are valid for the Spec Filter **X_<Init>_BI_1NPS_1SCH** specified in the **Spec Header Geometrics** tab.

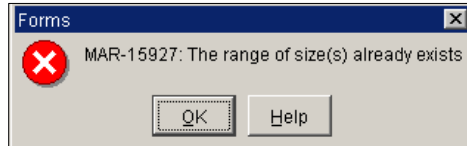
Ident	Ident Code	Nps1	Sch1	Input 3	Input
3675227	I3675227	1	S-XS	0	0
3675235	I3675235	2	S-XS	0	0
3675240	I3675240	3	S-XS	0	0
3675242	I3675242	4	S-XS	0	0
3675244	I3675244	6	S-XS	0	0

- q. Close the **“S.50.06 Specification Management Window 3”** to return to the **“S.50.06 Specification Management Window 2”** Spec Item screen.
- r. In the **Specification Items** section, click on the first blank row to add a new item with **Seq = 20**, **Short Code = PIP**, **Group = P**, **Part = PP**, **Option = 1** and **Commodity Code = PPPABQPEADLAAXZ**.

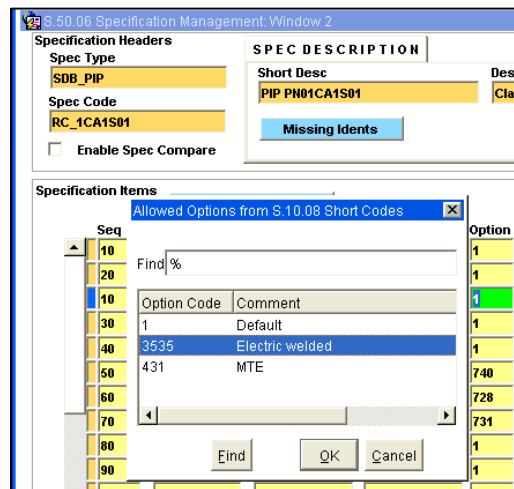
Design Only	Seq	Short Code	Group	Part	Option	Commodity Code
<input type="checkbox"/>	20	PIP	P	PP	431	PPPABQPEADLAAXZ

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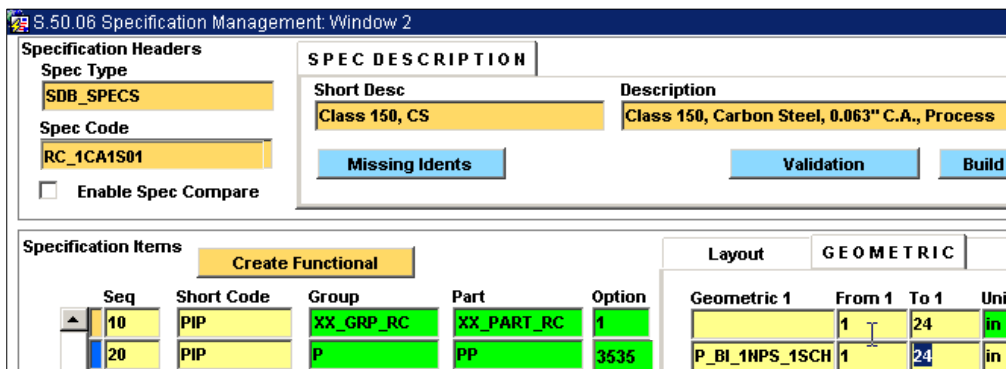
- s. Try to save the changes.
- t. The system will display an error message to the effect that **the range of size(s) already exists**. This is because when we added the second pipe to the spec the system did not limit it to a specific size range, which means all sizes are valid.
 - i. FYI: A spec cannot have two items with the same short code with overlapping size range with the same **Option** code. So we need to set the correct size range and / or the option code.



- u. Click on the **Option** field and press **F9** to display a **LOV**. Select the **Option Code 3535** from the **LOV**



- v. The **Option** field will be set to **3535**
- w. Set the size range to **1"** to **24"** and save the changes. The system should not report any errors



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- x. Click on the **Go To Next Block** icon to view the ids associated with the flange. Press **F8** to retrieve all the ids. System will display only those Idents whose size / schedules match the entries in **Geometric** table **P_BI_1NPS_1SCH** in the size range **1" to 24"**.

S.50.06 Specification Management: Window 3

Specification Items

Spec Code: **RC_1CA1S01** Validation Build Idents Show

Short Code: **PIP** Group: **P** Part: **PP** Option: **3535** Commodity Code: **PPPABQPEADLAAXZ** From: **1** To: **24** From:

From: To: From: To: From:

Commodity Description: **Pipe, ASME B36.10M, PE, ASTM A53-B, Type S, SMLS**

Geometric: **P_BI_1NPS_1SCH** Nominal Sizes: **1** Schedules: **1**

SPEC ITEM IDENT S Missing Nom. Sizes

Ident	Ident Code	Nps1	Sch1	Input 3	Input 4	Input
9533374	I9533374	1	S-XS	0	0	0
9533408	I9533408	1.5	S-XS	0	0	0
9540094	I9540094	2	S-XS	0	0	0
9567563	I9567563	3	S-STD	0	0	0
9570542	I9570542	3	S-XS	0	0	0
9568499	I9568499	4	S-XS	0	0	0
9570730	I9570730	6	0.083"	0	0	0
9570731	I9570731	6	0.109"	0	0	0
9570732	I9570732	6	0.125"	0	0	0

- y. Close the **"S.50.06 Specification Management: Window 3"** to return back to the Item screen.
- z. In the **Geometric** tab erase the entry in the **Geometric 1** field and Save the changes.

S.50.06 Specification Management: Window 2

Specification Headers

Spec Type: **SDB_SPECS** **SPEC DESCRIPTION**

Spec Code: **RC_1CA1S01** Short Desc: **Class 150, CS** Description: **Class 150, Carbon Steel, 0.063" C.A., Process**

☐ Enable Spec Compare Missing Idents Validation Build C

Specification Items Create Functional

Seq	Short Code	Group	Part	Option	Geometric 1	From 1	To 1	Unit
10	PIP	XX_GRP_RC	XX_PART_RC	431		1	24	in
20	PIP	P	PP	3535		1	24	in

Layout: **GEOMETRIC**

- aa. Click on the **Go To Next Block** icon to view the ids associated with the second pipe. Press **F8** to retrieve all the ids. Now the system will display only those

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Idents that are valid for the Spec based on the filter **X_<Init>_BI_1NPS_1SCH** specified in the **Spec Header Geometrics** tab.

Ident	Ident Code	Nps1	Sch1	Input 3	Input 4	Input 5
9533374	I9533374	1	S-XS	0	0	0
9533408	I9533408	1.5	S-XS	0	0	0
9567563	I9567563	3	S-STD	0	0	0
9570771	I9570771	6	S-STD	0	0	0
9570821	I9570821	8	S-STD	0	0	0
9570154	I9570154	10	S-STD	0	0	0
9570205	I9570205	12	S-STD	0	0	0

bb. Close the **"S.50.06 Specification Management: Window 3"** to return back to the Item screen.

cc. Click on the blank row and add a flange as **Spec Item 30** by setting the **Short Code** to **FLG**, **Group** to **F** and **Part** to **SW**.

Seq	Short Code	Group	Part	Option	Commodity Code
10	PIP	XX_GRP_RC	XX_PART_RC	1	XXX_BRPE
20	PIP	P	PP	3535	PPPABQPE
30	FLG	F	SW	14	

dd. In the layout tab click on the **Commodity Code** and press **F9** to select a from **LOV**

- ee. Click on the **Group** field of the **Tablename P_MATERIAL** and select **FORG_US** from the **LOV**. Then select the **table detail Y1** from the second **LOV**. Click on the **Find** button to search for the flange we created earlier.

S.50.06 Specification Management Window 2

Specification Headers

Spec Type: SDB_SPECS

Spec Code:

SPEC DESCRIPTION

Short Desc: Class 150, CS

Description: Class 150, Carbon Steel

S.30.01 List Commodity Codes (Related to Table Details or Attribute Values)

DETAILS | Attributes

Tablename	Group	Table Detail
P_DIM_STD	%	%
P_END_PREP	%	%
P_MATERIAL	FORG_US	Y1
P_MAT_SYSTEM	%	%
P_RATING	%	%

Commodity Codes

Commodity Code	Description

Find Reset Query Reset All OK

- ff. Select the first flange and click the **OK** button.

S.50.06 Specification Management Window 2

Specification Headers

Spec Type: SDB_SPECS

Spec Code:

SPEC DESCRIPTION

Short Desc: Class 150, CS

Description: Class 150, Carbon Steel

S.30.01 List Commodity Codes (Related to Table Details or Attribute Values)

DETAILS | Attributes

Tablename	Group	Table Detail
P_DIM_STD	FLG_US	BL
P_END_PREP	FLANGE	RF
P_MATERIAL	FORG_US	Y1
P_MAT_SYSTEM	US	A
P_RATING	RAT_US	D

Commodity Codes

Commodity Code	Description
FSWABLDRFAY1ZZZ	Socketweld Flange , ASME B16.5 , Class 150 , Ra

Find Reset Query Reset All OK

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- gg. System will assign the selected **Commodity Code** to spec item **30**.
- hh. Click on the **Geometric** tab to see that the system assigned a geometric **P_FSW_DSTD_B10.19** and did not set the size range.

S.50.06 Specification Management: Window 2

Specification Headers

Spec Type: **SDB_SPECS**

Spec Code: **RC_1CA1S01**

☐ Enable Spec Compare

SPEC DESCRIPTION

Short Desc: **Class 150, CS**

Description: **Class 150, Carbon Steel, 0.063" C.A., Process**

Missing Idents **Validation** **Build C**

Specification Items

Create Functional

Seq	Short Code	Group	Part	Option	Geometric 1	From 1	To 1	Unit
10	PIP	XX_GRP_RC	XX_PART_RC	431		1	24	in
20	PIP	P	PP	3535		1	24	in
30	FLG	F	SW	14	P_FSW_DSTD_B10.19			in

- ii. We do not want to control the valid size / schedule combination for the flange at the item level, hence erase the entry in the **Geometric 1** field and change the size range to **1** to **24** in.

S.50.06 Specification Management: Window 2 **Edit field**

Specification Headers

Spec Type: **SDB_SPECS**

Spec Code: **RC_1CA1S01**

☐ Enable Spec Compare

SPEC DESCRIPTION

Short Desc: **Class 150, CS**

Description: **Class 150, Carbon Steel, 0.063" C.A., Process**

Missing Idents **Validation** **Build C**

Specification Items

Create Functional

Seq	Short Code	Group	Part	Option	Geometric 1	From 1	To 1	Unit
10	PIP	XX_GRP_RC	XX_PART_RC	431		1	24	in
20	PIP	P	PP	3535		1	24	in
30	FLG	F	SW	14		1	24	in

- jj. Save the changes
- kk. Click on the **Go To Next Block** icon to view the idents associated with the flange. Press **F8** to retrieve all the idents. Since no idents have been built for this commodity, there are no entries in the **Spec Item Idents** tab.

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S.50.06 Specification Management: Window 3

Specification Items Spec Code **RC_1CA1S01** Validation Build Idents Batch

Short Code	Group	Part	Option	Commodity Code	From	To1
FLG	F	SW	1	FSWABLDRFAY1ZZZ	1	24
			From	To3	From	To4

Commodity Description **SW Flg., B16.5, CL150, RFDemo Material Y1**

Geometric Nominal Sizes Schedules

0 0

SPEC ITEM IDENTs Missing Nom. Sizes

Ident	Ident Code	Nps1	Sch1	Input 3	Input

- II. Click on the **Build Idents** button and Click the **Yes** button when the system asks for a confirmation to generate idents.

Forms

Would you like to create ident(s) for this specification item?

Yes No

- mm. System will display a message indicating the number of idents created. Click the **OK** button.

Note: You may get a different count depending on the Commodity Code and previous actions performed for it.

Forms

3 ident(s) created.

OK

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nn. System will display the generated idents. Note that only 3 idents were generated (sizes 1", 2" and 3").

S.50.06 Specification Management: Window 3

Specification Items Spec Code **RC_1CA1S01** Validation Build Idents Batc

Short Code **FLG** Group **F** Part **SW** Option **1** Commodity Code **FSWABLD RFAY1ZZZ** From **1** To1 **24**

From To3 From To4

Commodity Description **SW Flg., B16.5, CL150, RFDemo Material Y1**

Geometric Nominal Sizes **0** Schedules **0**

SPEC ITEM IDENT S Missing Nom. Sizes

Ident	Ident Code	Nps1	Sch1	Input 3	Input
3675582	I3675582	1	S-XS	0	0
3675621	I3675621	2	S-XS	0	0
3675648	I3675648	3	S-XS	0	0

oo. To understand why it did so, **Double Click** on the **Commodity Code** to view the details of the Flange.

S.30.01 Commodity Codes

CC PROPERTIES Group/Part Description CC Description CC Layout

Group **F** Part **SW** Commodity Code **FSWABLD RFAY1ZZZ**

Short Desc **SW Flg. , B16.5 , CL150 , RF Demo Material Y1** Standard Crea

Type **Table Detail Based** Rule **P_FLANGE** Object **P_1H1S_E**

Attribute Set Commodity Rule

DETAILS Attributes Symbols Additional TAG Info S2008 Commodity Geometric Relations

Build One Commodity Build Ident Build CC for Part(s) Build CC with Range ☒ Check Double

Digit ☒ All ☐ Only required tables(S.10.01)

Digit	from	to	Tablename	Group	Detail	Use	TD DESCRIPTION	TG Description	Range
4	4	4	P_SYSTEM	US	A	<input checked="" type="checkbox"/>	Short Desc		Description
5	6	6	P_DIM_STD	FLG_US	BL	<input checked="" type="checkbox"/>	, B16.5		, ASME B16.5
7	7	7	P_RATING	RAT_US	D	<input checked="" type="checkbox"/>	, CL150		, Class 150
8	9	9	P_END_PREP	FLANGE	RF	<input checked="" type="checkbox"/>	, RF		, Raised Face
10	10	10	P_MAT_SYSTEM	US	A	<input checked="" type="checkbox"/>			
11	12	12	P_MATERIAL	FORG_US	Y1	<input checked="" type="checkbox"/>	Demo Material Y1		Y1

- pp. Click on the **Commodity Geometric Relations** tab to view geometric table and size limitations for ident creation.
- i. Note that the geometric table **P_BI_1NPS_1SCH** was used to build idents for size ranging from **.5"** to **3"**. This explains why sizes greater than **3"** were not built.
 - ii. However the table **P_BI_1NPS_1SCH** has other size / schedule combinations such as **.5", 1", 1.5", 2"** for which idents were not created.

The screenshot shows the 'S.30.01 Commodity Codes' window. The 'CC PROPERTIES' tab is active, displaying a table with columns: Group, Part, Commodity Code, and Short Desc. The table contains one row with values: F, SW, FSWABLDRFAY1ZZZ, and SW Flg. , B16.5 , CL150 , R. Below this table, there are fields for Type (Table Detail Based), Rule (P_FLANGE), and Object (P_1N1S_E). There are also checkboxes for Attribute Set and Commodity Rule. The 'Details' tab is selected, showing a table with columns: Date/Time created, Geometric, Project/PG, From, and To. The table contains one row with values: 20-JAN-2009 13:49:19, P_BI_1NPS_1SCH, SDB, .5, and 3. Below this, there is a 'Geom Details' table with columns: Unit System, NPS1, SCH1, and three 'Unused' columns. The table contains seven rows with values: IMP/MET, .5, S-10, 0, 0, 0; IMP/MET, .5, S-10S, 0, 0, 0; IMP/MET, .5, S-160, 0, 0, 0; IMP/MET, .5, S-30, 0, 0, 0; IMP/MET, .5, S-40, 0, 0, 0; IMP/MET, .5, S-40S, 0, 0, 0; and IMP/MET, .5, S-5, 0, 0, 0.

qq. To understand why idents were not created for all the size /schedule combinations we need to review the spec filter.

rr. Close the Commodity Code and Item screens and return back to the **"S.50.06 Specification Management"** screen.

ss. In the **Spec Header Geometric** tab, **Double Click** on the Spec Filter **X_<Init>_BI_1NPS_1SCH** to view the Size / Schedule combinations valid for this spec. As you can see from the screen below only the sizes **1", 2", 3", 4", 5"** and **6"** with a schedule **S-XS** are allowed. Hence only three idents were created for the flange, one each for **1", 2"** and **3"** with schedule **S-XS**.

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S.40.12 Commodity Geometrics: Window 2

Geometric Table Definition

Calc Geom Geometric Short Desc

Apply Calculation X_RC_BI_1NPS_1SC 1NPS 1SC

Geom Details

Copy Geom

Unit System	NPS1	SCH1	P_NULL
IMP/MET	1	S-XS	
IMP/MET	2	S-XS	
IMP/MET	3	S-XS	
IMP/MET	4	S-XS	
IMP/MET	6	S-XS	

- tt. Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec name and click on the **Start Report** button. System should display a pdf file showing the Spec header details, Pressure / Temperature Ratings, Branch Table, Notes and the Items.

Date: Jan. 07, 2012

Piping Material Specification Line Class: RC_1CA1S01
Rev. No.: 0

P_SERVICE: Process P_RATING_CLASS: 150, ASME B16.5a - 1998

P_TEMP_LIMIT: -50F to 650F (Note 09) P_MATERIAL_TYPE: Impact Tested Carbon Steel

P_DESIGN_CODE: ASME B31.3-2002 P_STRESS_RELIEF: None Required

P_EXAMINATION: Per ASME B31.3 P_CORR_ALLOWANCE: 0.063 in (0.05 in MIN)

P_PT_COMMENT: For NPS 1/2 through NPS 40 (Pressure is limited by A352 GR LCB valve material.) P_PT_COMMENT: For NPS 42 through NPS 48 (Note 01)

GENERAL NOTES: 15, 17, 59, 81, R01, R03, R04, R05, R06, R0

Pressure - Temperature Ratings

Temp.	-50 F	400 F	500 F	600 F	650 F
Press.	300 PSIG	250 PSIG	200 PSIG	150 PSIG	100 PSIG

ITEM	Rev.	Notes	NPS1	NPS2	Comm.Code	Description
Forged Fittings	.5	.5	-		ONIPABQPGAD4ABBZ	Nipple, B36.10M, PE ASTM A333-6, 6" Long , SMLS , Ej=1.00
	.5	1.5	-		ONIPABQPGAD4ABAZ	Nipple, B36.10M, PE ASTM A333-6, 4" Long , SMLS , Ej=1.00
	.5	2	-		ONIPABQPMAD4ABAZ	Nipple, B36.10M, PE x MTE ASTM A333-6, 4" Long , SMLS , Ej=1.00
	.5	.5	-		ONIPABQPGAD4AAZZ	Nipple, B36.10M, PE ASTM A333-6, 3" Long , SMLS , Ej=1.00
	.75	1.5	.5	1	OSGCAM8PEAYUAANZ	Con. Swage, MSS SP-95, PBE , ASTM A420 Grade WPL6, Type S
	.75	1.5	.5	1	OSGAM8PEAYUAANZ	Ecc. Swage, MSS SP-95, PBE , ASTM A420 Grade WPL6, Type S
	2	48	.5	1.5	OSOCAM9SSWACRZZZ	Socket, MSS SP-97, CL 3000, SWE , ASTM A350 Grade LF2

- uu. Close all the screens

Lab 22. Create a new Spec

- a. Launch **"S.50.06 Specification Management"**
- b. **Add the Header**
 - i. Ensure you are in the **Data Entry (Green Background) Mode**
 - ii. **Click** on the first blank row.
 - iii. Select the Spec Type **SDB_PIP** and add a new spec **<Init>_2CS150**
 - iv. Save the changes
- c. **Add Header Geometrics**
 - i. In the **Spec Header Geometric** tab add the branch details by, entering a **Short Code** of **90%**, **Table Type** of **Branch Filter** and **Table Name** of **BR1CA1S01** and size range **1 – 24, 1 – 24**. Check the **Filter** checkbox.
 - ii. Similarly specify the nominal sizes by, entering a **Short Code** of **%**, **Table Type** of **Nominal Sizes** and **Table Name** of **1CA1S01** and specifying size range **1 – 24**. Do not check the **Filter** checkbox.
 - iii. Specify the spec filter to limit the size schedule combinations for all components in the spec by, entering a **Short Code** of **%**, **Table Type** of **User Defined Filter** and **Table Name** of **P_BI_1NPS_1SCH** and size range **1 – 24**. Check the **Filter** checkbox.
 - iv. Save the changes
- d. **Specify Spec Details**
 - i. Click on the **Specification Groups** tab and add following groups via **LOV**

Seq	Table Name	Group
1	P_FLUID_CODE	ALL
2	P_RATING_CLASS	ANSI
3	P_TEMP_LIMIT	ALL
4	P_CORR_ALLOWANCE	ALL
5	P_MATERIAL_TYPE	ANSI
6	P_DESIGN_CODE	ANSI
7	P_STRESS_RELIEF	ANSI
8	P_EXAMINATION	ANSI

- ii. Click on the **Specification Details** tab and add following details via **LOV**

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Seq	Table Name	Group	Detail
1	P_FLUID_CODE	ALL	AA
2	P_RATING_CLASS	ANSI	AA
3	P_TEMP_LIMIT	ALL	EN
4	P_CORR_ALLOWANCE	ALL	AA
5	P_MATERIAL_TYPE	ANSI	C8
6	P_DESIGN_CODE	ANSI	AE
7	P_STRESS_RELIEF	ANSI	AB
8	P_EXAMINATION	ANSI	AA

iii. Save the changes

e. Add notes

- Click on the **Specification Notes** tab and add the predefined note **15, 59 and 81** at the header level, using the **LOV. This Note** field represents the sequence in which the notes will be printed.
- Save the changes

f. Specify P/T limits

- Click on the **Specification Limits** tab and enter the Pressure / Temperature details as follows

Pressure	Unit	Temperature	Unit
125	PSIG	650	F
140	PSIG	600	F
170	PSIG	500	F
200	PSIG	400	F
230	PSIG	300	F

ii. Save the changes

g. Print the Spec

- Click on the Report Icon and **Select the Report S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available).
- Print a copy of the Spec using the From **LOV** select your spec name and click on the **Start Report** button.
- System should display a pdf file showing the Spec header details, Pressure / Temperature Ratings, Branch Table and Notes. Note that no items are printed.

h. Close all the screens

Lab 23. Add Pipes to the Spec

- Launch **"S.50.06 Specification Management"** and **enter the query** mode
- Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and **Running the query**

- Double Click on your **Spec Code** to add the following Items

Note: If the below listed Commodity Code don't exists, use other commodity codes.

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
10	PIP	P	PP	1	PPPABQPEAD4AAVZ	.5	1.5		in			
20	PIP	P	PP	1	PPPABQBEAD4AAVZ	4	24		in			
30	PIP	P	PP	1	PPPABQBEADSAAAPZ	26	30		in			
40	PIP	P	PP	1	PPPABQBEADSAAAPZ	36	48		in			

- Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents with each item and generate any missing idents.
- Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec and click on the **Start Report** button. System should display a pdf file showing the Spec header details, Pressure / Temperature Ratings, Notes and the Items.
- Close all the screens

Lab 24. Add Flanges to the Spec

- Launch **"S.50.06 Specification Management"** and **enter the query mode**
- Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and **Running the query**
- Double Click on your **Spec Code** to add the following Items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
50	FLG	F	SW	1	FSWABLDRAFACRZZZ	.5	1.5		in			
60	FLG	F	SW	211	FSWABLDFFACRZZZ	.5	1.5		in			
70	FLG	F	SW	773	FSWABLIRFACRZZZ	.5	1.5		in			
80	FLG	F	BL	1	FBLABLDRAFACRZZZ	.5	24		in			
90	FLG	F	BL	773	FBLABLIRFACRZZZ	.5	24		in			
100	FLG	F	BL	1	FBLABJDRFACRZZZ	26	48		in			
120	FLG	F	WN	1	FWNABLDRAFACRZZZ	2	24		in			
130	FLG	F	WN	1	FWNABJDRFACRZZZ	26	48		in			

- Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents and generate any missing idents.
- Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec and click on the **Start Report** button. System should display a pdf file showing the new items.
- Close all the screens

Lab 25. Add Gaskets to the Spec

- Launch **"S.50.06 Specification Management"** and **enter the query** mode
- Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and
Running the query
- Double Click on your **Spec Code** to add the following Items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
140	GSK	G	NM	1	GNMAB7DRFAZQA1J	P_BI_GSK_1.6_MM	.5	24	in			
150	GSK	G	SW	1	GSWAB8DRFAZHZZZ	P_GSW_DSTD_B16_20_ESTD_B16.47B_CL150	26	48	in			
160	GSK	G	NM	773	GNMAB7IRFAZQA1J	P_BI_GSK_1.6_MM	.5	24	in			

- Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents and generate any missing idents.
- Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec name and click on the **Start Report** button. System should display a pdf file showing the new items.
- Close all the screens

Lab 26. Add Gate Valves to the Spec

- a. Launch **"S.50.06 Specification Management"** and **enter the query** mode
- b. Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and
Running the query
- c. Double Click on your **Spec Code** to add the following Items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
180	VGAT	VG	R	1	VGRAAXMSWZFADQA1BZZZZ	.5	2		in			
190	VGAT	VG	R	221	VGRAAXDRFZFADQA1BZZZZ	.5	2		in			
200	VGAT	VG	R	1	VGRAAXDRFHFACFA1BZZZZ	3	24		in			
210	VGAT	VG	R	1	VGRAAXDRFHFACFA1BZZZZ	26	48		in			

- g. Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents and generate any missing idents.
- d. Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec name and click on the **Start Report** button. System should display a pdf file showing the new items.
- e. Close all the screens

Lab 27. Add Globe Valves to the Spec

- Launch **"S.50.06 Specification Management"** and **enter the query** mode
- Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and
Running the query

- Double Click on your **Spec Code** to add the following Items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
230	VGLB	VL	R	1	VLRAAXMSWZFACFA1BZZZZ		.5	2	in			
240	VGLB	VL	R	1	VLRAAXDRFZFACFA1BZZZZ		3	12	in			

- Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents and generate any missing idents.
- Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec name and click on the **Start Report** button. System should display a pdf file showing the new items.
- Close all the screens

Lab 28. Add Check Valves to the Spec

- Launch **"S.50.06 Specification Management"** and **enter the query mode**
- Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and
Running the query
- Double Click on your **Spec Code** to add the following Items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
250	VCHK	VC	WF	33	VCWFAAXDRFZACF1DTZZZZ	3	24	in				
260	VCHK	VC	WF	33	VCWFAAXDRFZACF1DTZZZZ	26	48	in				
270	VCHK	VC	SC	1	VCSCAAXDRFZACF1A2ZZZZ	3	24	in				
280	VCHK	VC	SC	1	VCSCAAXDRFZACF1A2ZZZZ	26	48	in				

- Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents and generate any missing idents.
- Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec name and click on the **Start Report** button. System should display a pdf file showing the new items.
- Close all the screens

Lab 29. Add Ball Valves to the Spec

- a. Launch **"S.50.06 Specification Management"** and **enter the query mode**
- b. Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and
Running the query
- c. Double Click on your **Spec Code** to add the following Items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
300	VBAL	VB	B	1	VBBAAXISWXCADQA1AAAUZ	.5	2		in			
310	VBAL	VB	B	1	VBBAAXDRFXCADQA1AAAUZ	3	6		in			
320	VBAL	VB	B	24	VBBAAXDRFKCADQA1AAAUZ	3	6		in			
330	VBAL	VB	B	1	VBBAAXDRFXBADQA1AAAUZ	8	10		in			
340	VBAL	VB	B	1	VBBAAXDRFXBADQA1AAAUZ	12	24		in			
350	VBAL	VB	B	1	VBBAAXDRFXBADQA1AAAUZ	26	48		in			
360	VBAL	VB	B	24	VBBAAXDRFKBADQA1AAAUZ	8	10		in			

- d. Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents and generate any missing idents.
- e. Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec name and click on the **Start Report** button. System should display a pdf file showing the new items.
- f. Close all the screens

Lab 30. Add 90 Deg Elbows to the Spec

- Launch **"S.50.06 Specification Management"** and **enter the query** mode
- Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and **Running the query**
- In the **Spec Header Geometric** tab add the branch details by, entering a **Short Code** of **90%**, **Table Type** of **Branch Filter** and **Table Name** of **BR1CA1S01** and size range **0.75 – 24, .5 – 20**. Check the **Filter checkbox**.
- Save the changes
- Double Click on your **Spec Code** to add the following Items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
370	E90	O	E90	1	OE90AB2SSWACRZZZ		.5	1.5	in			

- Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents and generate any missing idents.
- Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec name and click on the **Start Report** button. System should display a pdf file showing the new items.
- Close all the screens

Lab 31. Add 45 Deg Elbows to the Spec

- Launch **"S.50.06 Specification Management"** and **enter the query** mode
- Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and **Running the query**

- Double Click on your **Spec Code** to add the following Items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
440	E45	O	E45	1	OE45AB2SSWACRZZZ		.5	1.5	in			

- Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents and generate any missing idents.
- Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec name and click on the **Start Report** button. System should display a pdf file showing the new items.
- Close all the screens

Lab 32. Add Swages to the Spec

- a. Launch **"S.50.06 Specification Management"** and **enter the query** mode
- b. Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and
Running the query

- c. Double Click on your **Spec Code** to add the following Items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
380	SWGC	O	SGC	1	OSGCAM8PEAYUAANZ		.75	1.5	in	.5	1	in
390	SWGE	O	SGE	1	OSGEAM8PEAYUAANZ		.75	1.5	in	.5	1	in

- d. Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents and generate any missing idents.
- e. Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec name and click on the **Start Report** button. System should display a pdf file showing the new items.
- f. Close all the screens

Lab 33. Add Olets to the Spec

- a. Launch **"S.50.06 Specification Management"** and **enter the query mode**
- b. Search for the spec you created by typing in **<Init>_2CS150** in the Spec Code and
Running the query
- c. Double Click on your **Spec Code** to add the following Items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
400	90SOL	O	SOC	1	OSOCAM9SSWACRZZZZ		2	48	in	.5	1.5	in
410	90TOL	O	THL	541	OTHLAM9STFACRZZZZ		2	48	in	.5	1.5	in
420	EBL	O	L45	1	OL45AP2SSWACRZZZZ		2	48	in	.5	1.5	in
430	EBL	O	L45	541	OL45AP2STFACRZZZZ		3	48	in	.5	1.5	in
450	45LOL	B	WEL	1	BWELAM9BEACRZZZ		20	48	In	2	10	In
460	45LOL	B	WEL	541	BWELAM9BEACRZZZ		3	18	in	2	16	In

- d. Click on the **Go To Next Block** Icon to view **"S.50.06 Specification Management Window 3"** to view the list of associated idents and generate any missing idents.
- e. Click on the **Report** Icon and print the Spec using the **S.50.R.US.03 PIP Spec Report** (or any other Spec Report if the PIP Spec Report is not available). From **LOV** select your spec name and click on the **Start Report** button. System should display a pdf file showing the new items.
- f. Close all the screens

Lab 34. Spec Evaluation

- a. List all the things that are wrong with the above spec. Some of the things to consider are Size Ranges, Option Codes, Material, End Preparation, Standards, Facing Type etc.

Area / Information	Issue	Resolution
Spec Header		
Pressure / Temperature Limits		
Header Groups / Details		
Notes		
Pipes		
Flanges		
Ball Valves		
Gate Valves		
Check Valves		
Globe Valves		
Gaskets		
45 Deg Elbows		
90 Deg Elbows		
Swages		
Olets		
Bolts		

Lab 35. Issue / Revise / Publish Spec

- Launch the **"S.50.13 Issue / Release Project Spec"** screen
- Find the spec <Init>_1CA1S01 you created in previous Lab

Specification Revisions							Display Options	
Project / PG	Revision	Rev. Character	Revision Date	Active	Display			
SDB	0		13-JAN-2007	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="radio"/> Project Only <input type="radio"/> Product Group Only <input checked="" type="radio"/> Both <input checked="" type="radio"/> Project Revision <input type="radio"/> Spec Revision <input type="radio"/> Highest Spec Revision		

Specification Headers										
Issue	Published	Revise	Spec Type	Spec Code	Rev No.	Date	XRev	Version	Short Desc	Description
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SDB_PIP	RC_1CA1S01	0		0	0	PIP PN01CA1S01	Class 150, Impact TestedCarb

- Click the **Issued** checkbox and **Save** the changes to issue the spec
- The system will prompt you for a confirmation and inform you that the spec will be frozen; additional changes would not be possible without revising the spec. **Click the Yes button.**

Store spec item ids?

Do you want to store the spec item ids permanently?
This means that the result of ids for this specification
will be frozen. This can take some time.

Yes No Cancel

Specification Revisions							Display Options	
Project / PG	Revision	Rev. Character	Revision Date	Active	Display			
SDB	0		13-JAN-2007	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="radio"/> Project Only <input type="radio"/> Product Group Only <input checked="" type="radio"/> Both <input checked="" type="radio"/> Project Revision <input type="radio"/> Spec Revision <input type="radio"/> Highest Spec Revision		

Specification Headers										
Issue	Published	Revise	Spec Type	Spec Code	Rev No.	Date	XRev	Version	Short Desc	Description
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SDB_PIP	RC_1CA1S01	0		0	0	PIP PN01CA1S01	Class 150, Impact TestedCarb

- Close all screens
- Open the **"S.50.06 Specification Management"** screen and navigate to your spec. Verify that the issued check box is turned on.

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S.50.06 Specification Management

Specification Headers

Display Options

☐ Project Only ☒ Highest Rev. issued or not

☐ Product Group Only ☐ All

☒ Both ☐ Not issued and highest Rev

Buttons: Addition, Delete, Build Idents

Spec Type	Spec Code	PN / Class	Ctrl	Rev	Issued
SDB_PIP	RC_1CA1S01		1	0	<input checked="" type="checkbox"/>
					<input type="checkbox"/>

- g. Double click on the spec to view the spec item. Note the Add / Delete icons are disabled and you cannot add, modify or delete items.

SDB@SDBFT SmartPlant Materials 2011 (7.1.0), Service Pack 0

File Edit Customer Menu Window BI Reporting Help

S.50.06 Specification Management: Window 2

Specification Headers

Spec Type: SDB_PIP

Spec Code: RC_1CA1S01

☐ Enable Spec Compare

SPEC DESCRIPTION

Short Desc: PIP PN01CA1S01

Description: Class 150, Impact Tested Carbon St

Buttons: Missing Idents, Validation

Specification Items

Create Functional

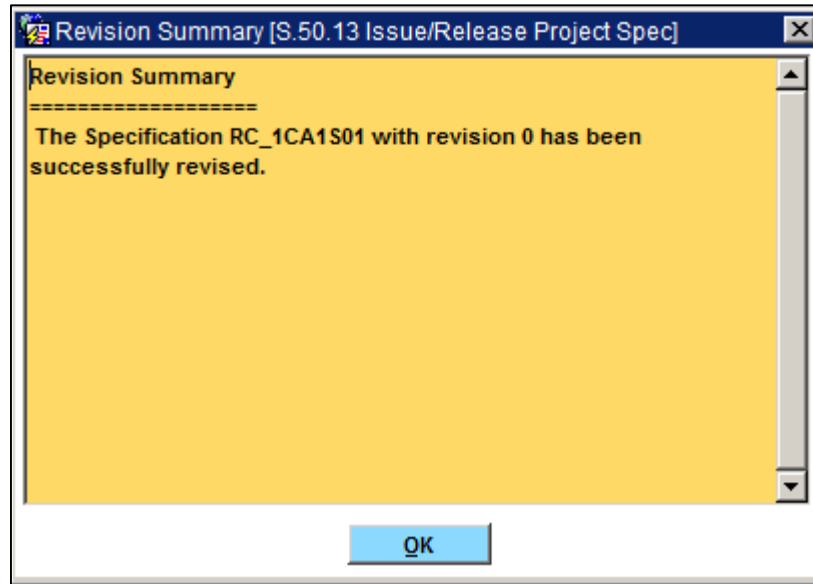
Design Only	Seq	Short Code	Group	Part	Option	Commodity Code
<input type="checkbox"/>	10	PIP	P	PP	1	PPPABQPEAD4AAVZ
<input type="checkbox"/>	20	PIP	P	PP	1	PPPABQBEAD4AAVZ
<input type="checkbox"/>	30	PIP	P	PP	1	PPPABQBEADSAAPZ
<input type="checkbox"/>	40	PIP	P	PP	1	PPPABQBEADSAAPZ

Buttons: LAYOUT, Geometric, Sp

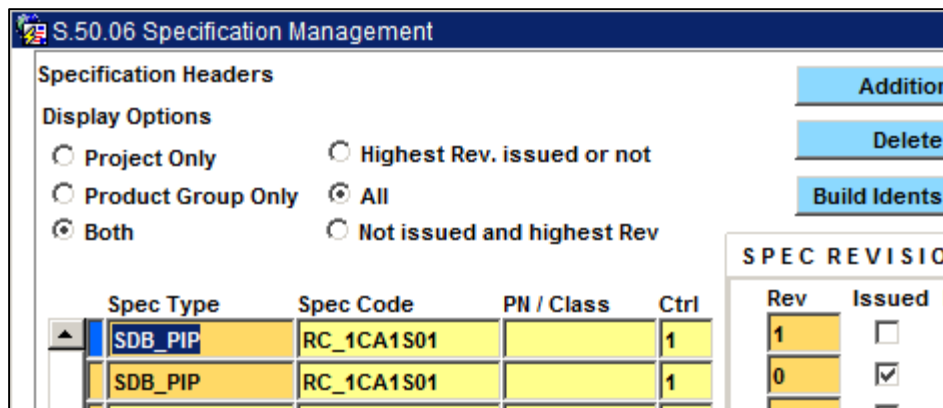
- h. Close all screens

Lab 36. Revise a Spec

- Open the **"S.50.13 Issue / Release Project Spec"** screen
- Navigate to the spec **<Init>_1CA1S01** you issued above
- Select it and **click** on the **Revise Spec** button. The system will display a message, indicating that your spec has been successfully revised. **Click** the **OK** button.



- Close all the screens
- Open the **"S.50.06 Specification Management"** and press **F8** to retrieve all specs. Check the **Display All** radio button to show all the revs for the specs.
- Search for your spec **<Init>_1CA1S01** and verify that the issued **check box** is checked only for rev 0 and not for rev 1.



- Double click** on the rev 1 of your Spec **<Init>_1CA1S01** to view the spec items. Note the Add / Delete icons are enabled.

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h. Add following items to the spec

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
490	90TEE	O	ETE	1	OETEAB2SSWACRZZZ		.5	1.5	in			
500	90TRE	O	RTE	1	ORTEAB2SSWACRZZZ		.75	2	in	.5	1.5	in

i. Change the size range for the item **40** from **42 - 48** to **48 - 48**

Seq	Short Code	Group	Part	Option	Commodity Code	Geometric	From1	To1	Unit	From 2	To2	Unit
40	PIP	P	PP	1	PPPABQBEADSAAPZ		2	24	in			

j. Delete the first item of the spec

k. Check the **Enable Spec Compare** and click on the **Modifications** tab

l. Click the **Compare All** button and review the comments in the **Changes** field

m. Click on the **Spec Compare** tab to specify the rev numbers to be compared. The **Compare Specification** field shows the current rev of the spec. In the **With Specification** field enter a lower rev no.

Note: Your screen may be different depending on the changes you made.

S.50.06 Specification Management: Window 2

Specification Headers

Spec Type: SDB_PIP
 Spec Code: RC_1CA1S01
☒ Enable Spec Compare

SPEC DESCRIPTION | Spec Compare

Short Desc: PIP PN01CA1S01 | Description: Class 150, Impact Tested Carbon Steel, Socket Weld, 0.063" C.A. Prod

Buttons: Missing Idents, Validation, Build Commodity

Specification Items | Create Functional | 1 Deleted Spec Items

Design Only	Seq	Short Code	Group	Part	Option	Modification	Changes
<input type="checkbox"/>	20	PIP	P	PP	1	NO CHANGE	
<input type="checkbox"/>	30	PIP	P	PP	1	NO CHANGE	
<input type="checkbox"/>	40	PIP	P	PP	1	MODIFIED	PRESENT From 1: 48 <==> COMPARED From 1
<input type="checkbox"/>	50	PIP	P	PP	1	NO CHANGE	

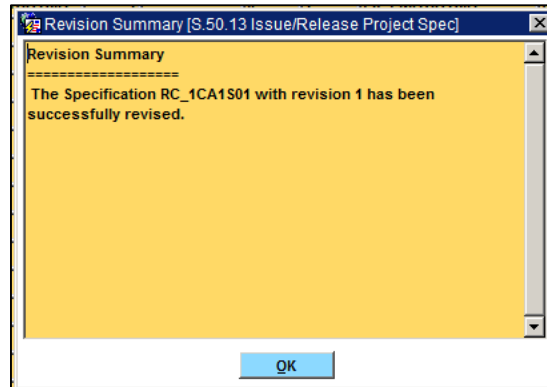
n. Close Window 2 to return to the **"S.50.06 Specification Management"**

o. **Check** the **issued** checkbox of rev 1 and **save** the changes to issue it. The system will prompt you with a message the spec will be frozen. Click **Yes** to continue. Try to add items to the spec, the system will not let you add items or make any changes.

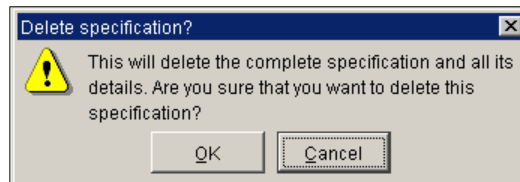
p. Close all screens

Lab 37. Delete a Spec Revision

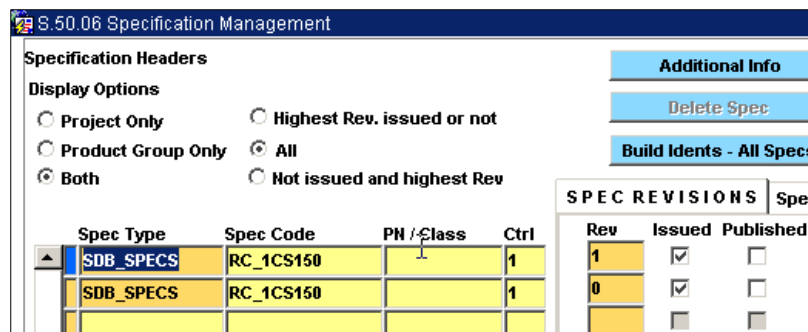
- Open the **"S.50.13 Issue / Release Project Spec"** screen.
- Navigate to Rev 1 of the spec **<Init>_1CA1S01** and **click** on the **Revise Spec** button.
The system will display a message, indicating that your spec has been successfully revised. **Click** the **OK** button.



- Close all the screens
- Open the **"S.50.06 Specification Management"** and press **F8** to retrieve all specs.
Check the **Display All** radio button to show all the revs and search for your specs.
- Navigate to Rev 2 of the spec **<Init>_1CA1S01** and **click** on the **Delete Spec** button to delete rev 2.
- The system will ask for a confirmation to delete the spec. **Click** the **OK** button.



- Search for your spec **<Init>_1CA1S01** to confirm that rev 0 and 1 of the spec exists and only rev 2 was deleted.



- Close all the screens

Lab 38. Publish a Spec

- a. Launch the **“S.50.13 Issue / Release Project Spec”** screen.
- b. Check the **Published check** box for rev 1 of your spec **<Init>_1CA1S01**
- c. Save the changes.
 - i. FYI: Only Issued Specs should be published. Specs are published to keep track of distribution to external sources i.e. Client, PMT, Modeling, Fabrication etc.
 - ii. FYI: **Unissue spec** functionality should be used very sparingly, only if the spec was issued incorrectly.
 - iii. FYI: **Project Rev and Spec Rev no:** Spec Rev No are the revisions associated with a spec but the Project Rev No. are associated with the Project. A given Spec may be revised multiple times before a Project rev is bumped up. In most cases project rev no. is controlled by the client and may be based on the phase / progress of the project.
- d. Close all the screens

Lab 39. Create a Project

- Open the **"A.60.02.01 Create New Project"** screen
- Specify a Project Code <Init> **_PROJECT** & Title **Demo Project** <Init>.
- From the **LOV** select **DEFAULT** as the **Project Group**.
- Enter your **user id** as the default **user**
- Select **Product Group** = **SDB**, **Discipline** = **PIPING**, **Nls Description** = **English**, **Role** = **SUPER USER** via **LOV**

A.60.02.01 Create new Project

Parameters for Create new Project

Project	Description	Password	Project Group	Proposal Project
RC_PROJECT	Demo Project RC	*****	DEFAULT	<input type="checkbox"/>

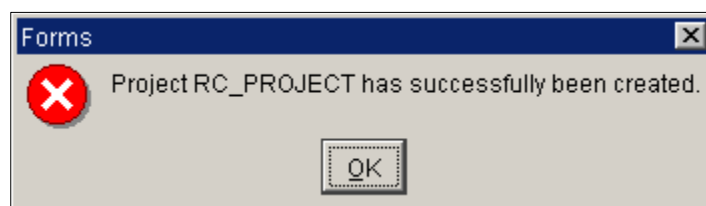
Defaults for the User Securities

User	RAJESH
Product Group	SDB
Discipline	PIPING
Nls Description	English
Role	SUPER USER
View Name	

Set default role active ☒

Create new Project

- Click on the **Create New Project** button to create the project. System will display a message indicating that the project was successfully created.



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- g. Open “A20.12 Project Defaults” and verify the **Unit System ZX_UNITSYS** default in the **General** tab is set to **IMP/MET**.

A.20.12 Project Defaults

Projects / Product Groups

Project / PG: SDB Description: SDB Standard Catalog Company: Use Company Idents

Project / Product Group Defaults

Query Options:

☒ All ☐ With Value ☐ Mandatory No Value
☐ Mandatory ☐ Without Value ☐ Mandatory With Value

Copy Values

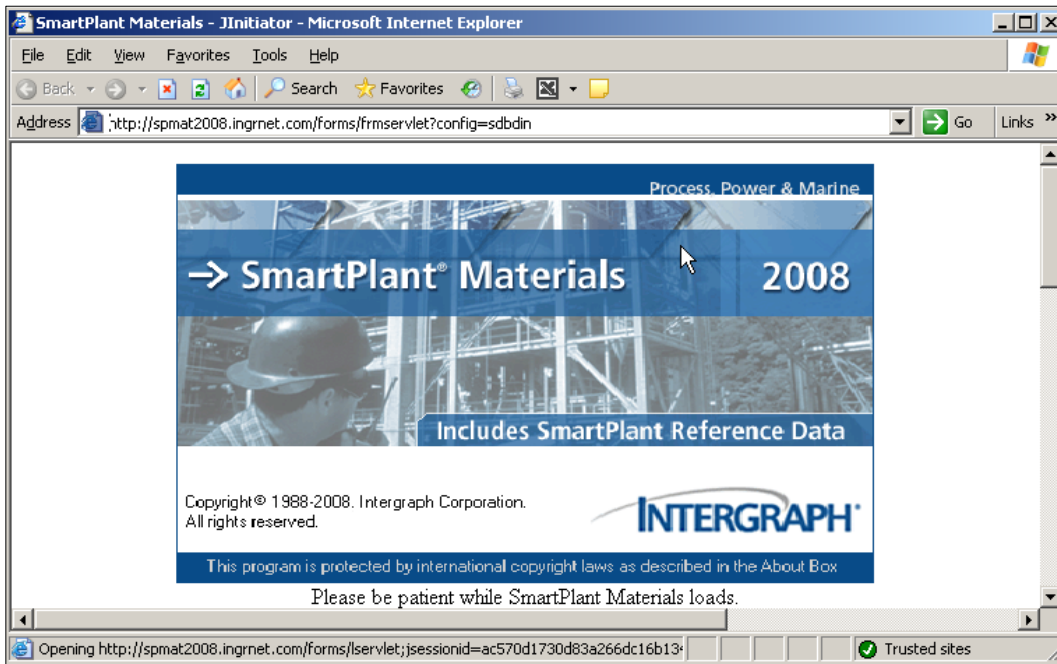
GENERAL | SPRD | E+PI (BOM) | E+PI (Req) | MSCM | Site | Integrator | Account Codes | Others

Param. Description	Parameter	Value	Value Description	Defined on	Mandatory	Default Value
Query case sensitive	ZX_QRY_CS	./.	./.	Product Group	<input type="checkbox"/>	Y
Filter data on DP.	ZX_QRY_DP	./.	./.	Product Group	<input type="checkbox"/>	
Alt. reports form	ZX_REP_FMX	./.	./.	Product Group	<input type="checkbox"/>	
Spec Revision active	ZX_REV_ACT	./.	./.	Product Group	<input type="checkbox"/>	N
Superuser A.20.06.21	ZX_SUPUSER	./.	./.	Product Group	<input type="checkbox"/>	
Temperature Unit-Id	ZX_TEMPER	./.	./.	Discipline	<input type="checkbox"/>	
Project Theme	ZX_THEME	./.	./.	Product Group	<input type="checkbox"/>	
Unit for Ton	ZX_TON	./.	./.	Product Group	<input type="checkbox"/>	
Unit System	ZX_UNITSYS	5001	IMP/MET	Product Group	<input type="checkbox"/>	
Update revision	ZX_UPD_RE	./.	./.	Product Group	<input type="checkbox"/>	N
Visualization active	ZX_VISUAL	./.	./.	Product Group	<input checked="" type="checkbox"/>	N
Default Volume Unit	ZX_VOLUME	./.	./.	Product Group	<input type="checkbox"/>	
Default Weight Unit	ZX_WEIGHT	5304	kg	Product Group	<input type="checkbox"/>	
Wallthickness Unit	ZX_WT_UNIT	./.	./.	Product Group	<input type="checkbox"/>	

- h. Close all screens

Lab 40. Login to a Project

- Launch Internet Explorer and type in the url for your SPRD installation



- In the Login window type in your **User Name**, **Password** and select **Working With Project**. System will display the available projects. Select the Project **<Init>_PROJECT** and **Piping** discipline.

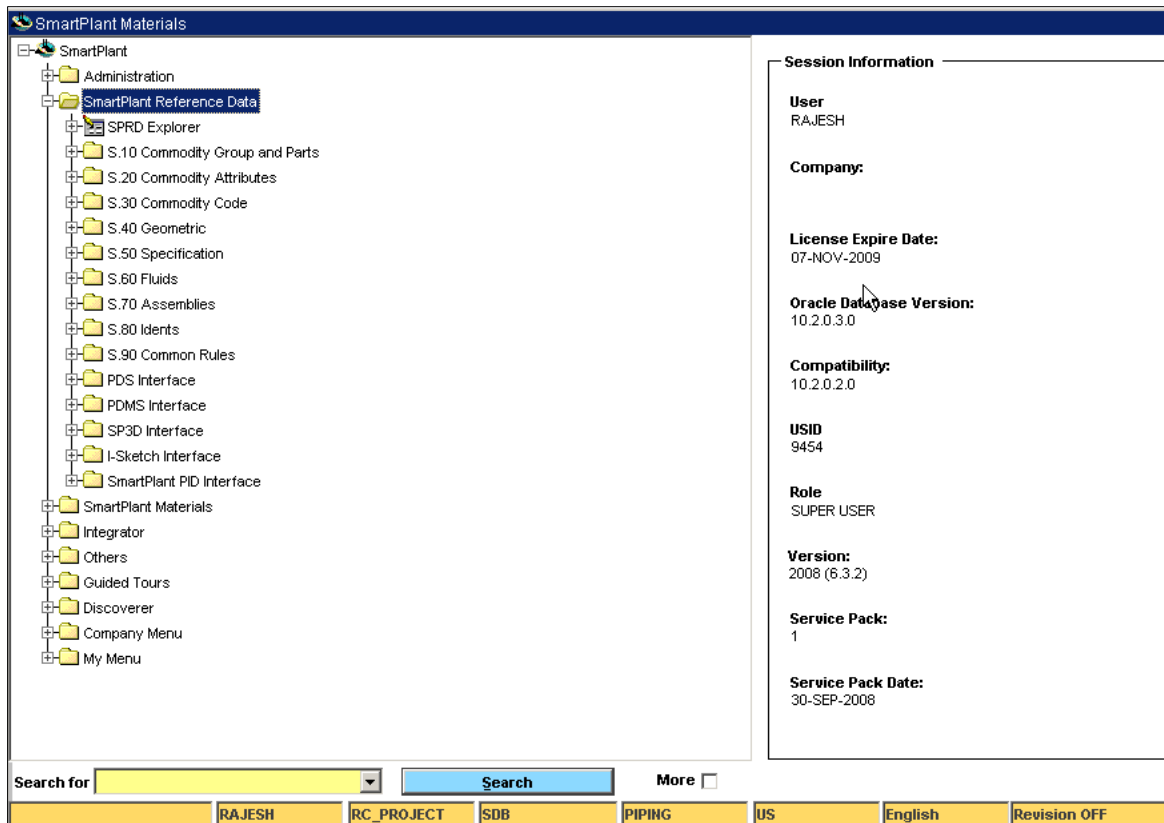
Log On To SmartPlant Materials

User Name	RAJESH	Project	RC_PROJECT	Nls	English
Password	*****	Product Group	SDB	Role	SUPER USER
Database	SDBDIN	Discipline	PIPING	Last Analyzed	06-AUG-2008
Working With	Project	Version	2008 (6.3.2)	<input checked="" type="checkbox"/> Get Batch Re	
		Service Pack	1		

Project	Description	Product Group	Discipline	Language	Role
RC_PROJ	NEW PROJECT	SDB	EL_IN_CAT	English	SUPER USER
RC_PROJ	NEW PROJECT	SDB	INSTRUMENT	English	SUPER USER
RC_PROJ	NEW PROJECT	SDB	MECHANICAL	English	SUPER USER
RC_PROJ	NEW PROJECT	SDB	PIPING	English	SUPER USER
RC_PROJ	NEW PROJECT	SDB	STRUCTURAL	English	SUPER USER
RC_PROJECT	Demo Project RC	SDB	DEFAULT	English	SUPER USER
RC_PROJECT	Demo Project RC	SDB	ELECTRICAL	English	SUPER USER
RC_PROJECT	Demo Project RC	SDB	EL_IN_CAT	English	SUPER USER
RC_PROJECT	Demo Project RC	SDB	INSTRUMENT	English	SUPER USER
RC_PROJECT	Demo Project RC	SDB	MECHANICAL	English	SUPER USER
RC_PROJECT	Demo Project RC	SDB	PIPING	English	SUPER USER
RC_PROJECT	Demo Project RC	SDB	STRUCTURAL	English	SUPER USER

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- c. On successful login you will be presented with the SPRD / SP Materials Menu.



- d. Do not log out from the project.

Lab 41. Release Spec to a Project

- a. Ensure you are logged in to the project <Init>_Project and **Piping** discipline.
 - i. FYI: You can **click** on the **Set Project/Discipline** button to change from Product Group to Project or from one Project to another or from one discipline to another.
- b. Open the “**A.20.10 Open Release Spec**” screen
- c. Ensure you are in the **Query** mode
- d. Select the Spec Type **SDB_PIP** and **Run the Query**

The screenshot shows the 'A.20.10 Release Spec' window. At the top, there are three input fields: 'Spec Type' (containing 'SDB_SPECS'), 'Short Desc' (empty), and 'Description' (empty). Below these is a section titled 'Specification Headers' containing a table with columns: 'Rel' (with a checkbox), 'Spec Code', 'Short Desc', and 'Description'. The table is currently empty. A 'Release All' button is located in the top right corner of the table area.

- e. Navigate to Rev 2 of your spec <Init>_1CA1501 and check the **Rel** checkbox.
- f. Save the changes to release the spec to your project

The screenshot shows the 'A.20.10 Release Spec' window after data entry. The 'Spec Type' field still contains 'SDB_SPECS'. The 'Short Desc' field now contains 'Sample Specs' and the 'Description' field also contains 'Sample Specs'. The 'Specification Headers' table now contains four rows of data:

Rel	Spec Code	Short Desc	Description
<input type="checkbox"/>	1CS150	1	Class 150, CS, Proc.
<input checked="" type="checkbox"/>	RC_1CS150	2	Class 150, CS
<input type="checkbox"/>	SDB_1CS150-RC1	0	Class 150, CS
<input type="checkbox"/>	SDB_1CS150_RC	1	Class 150, CS, RC

The 'Release All' button remains in the top right corner.

- g. Close all screens

Lab 42. Copy Spec to a Project

- a. Ensure you are logged in to the project **<Init>_Project** and **Piping** discipline.
 - i. FYI: You can **click** on the **Set Project/Discipline** button to change from Product Group to Project or from one Project to another or from one discipline to another.
- b. Open **"S.50.05 Specification Copy"** screen
- c. Ensure you are in the **Data Entry (Green Background)** mode.
- d. Select Spec Type of **SDB_PIP** and Spec Code Dest of **PROJ_<Init>_1CA1S01**. This is the name of the new spec for the project.
- e. Enter the spec title of **Project Spec <Init>**
- f. **Save** the changes

S.50.05 Specification Copy

Specification Header

Spec Type	Spec Code Dest	Rev	Short Desc	Description
SDB_PIP	PROJ_RC_1CA1S01	0	Project Spec	Project Spec

- g. Select the Product Group **SDB** in the **Project Source** field
- h. Select the spec **1CA1S01** to be copied in the **Spec Code Source** field
- i. **Check** the **Create Log File?** Checkbox

S.50.05 Specification Copy

Specification Header

Spec Type	Spec Code Dest	Rev	Short Desc	Description
SDB_PIP	PROJ_RC_1CA1S01	0	Project Spec	Project Spec

Specification Header Relations

Proj Source	Spec Code Source	Rev	Comm Code	Copied	Comment
SDB	1CA1S01	0	Insert	28-APR-14	

Header

Nls: Insert

Company: None

Interface: None

Detail: Insert

Group: Insert

Note: Insert

Geometrics: Insert

Common Geometrics: Insert

Limits: Insert

Symbols: Insert

Group Notes: Insert

Additional Info: None

Append Char:

Items

Item: Insert ☐ Use Order Seq

Company: None

Interface: None

Symbol: None

Group: None

Note: Insert

Definitions

SP3D Def.: None

Functional Def.: None

Options

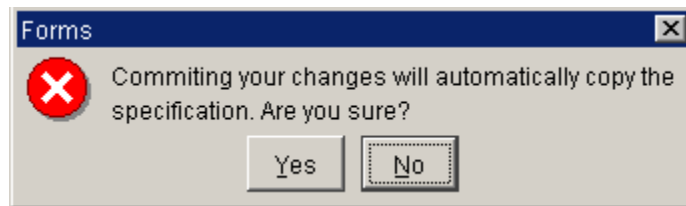
☒ Create Log File?

Log File

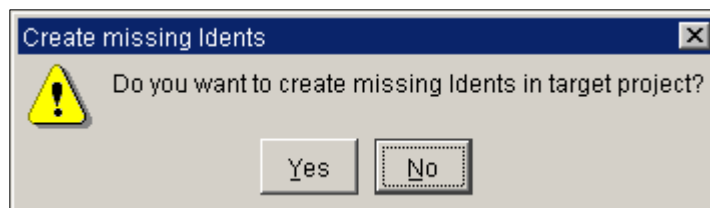
[View Log File](#)

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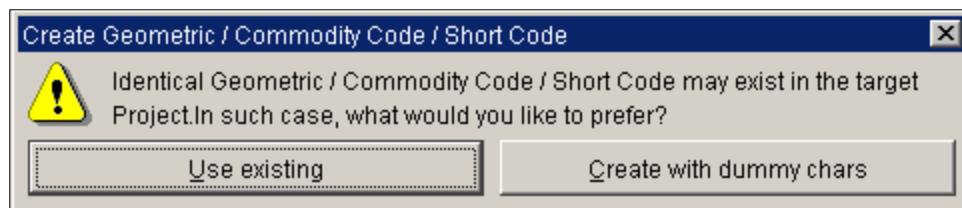
- j. Save the changes to copy the spec **1CA1S01** into **PROJ_<Init>_CS150**.
- k. System will prompt you for a confirmation to copy the spec. **Click the Yes button.**



- l. System will prompt you for a creation of missing idents in target project. **Click the No button.**



- m. System will prompt you for creation or using existing Geometric, Commodity and Short Code. **Click the Use existing button.**



- n. Close all screens

Lab 43. Build a Free Format Commodity Code (optional)

- a. Launch **"S.30.01 Commodity Codes"**
- b. Ensure you are in the **Data Entry (Green Background)** mode and not the **Query Mode**
- c. Set the **Group** to **XFF** and **Part** to **XPP** from **LOV (F9)**
- d. Save the changes
- e. The system will assign a dummy commodity code **CC1234567**, **Rule X_FREE** and prompt you to add key entries into the Rule.
- f. Click the **No** button.

The screenshot shows the 'S.30.01 Commodity Codes' application window. The main area contains a table with the following data:

Group	Part	Commodity Code
XFF	XPP	CC65406

Below the table, there are fields for 'Type' (set to 'Table Detail Based'), 'Rule' (set to 'X_FREE'), and 'Object'. There are also buttons for 'Build One Commodity' and 'Build Identifier'. A dialog box titled 'Update' is open, showing a warning icon and the message: 'Your commodity rule has no key entries. Do you want to insert them now?' with 'Yes' and 'No' buttons.

- g. Click on the **Commodity Code** field and type in **FREE_FORMAT_<INIT>** as the Commodity Code.
- h. Click on the **CC Description** tab to add the **Short** and **Long Description** as **Free Format <Init>**.

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S.30.01 Commodity Codes

CC Properties | Group/Part Description | **CC LAYOUT**

Group: XFF, Part: XPP, Commodity Code: FREE_FORM_RC

Type: Table Detail Based, Rule: X_FREE, Object:

Attribute Set: , Commodity Rule:

Short Desc: Free Format RC

Description: Free Format RC

DETAILS | Attributes | Symbols | Additional TAG Info | S2008 | Commodity Geometry

Build One Commodity | Build Ident | Build CC for Part(s) | Build CC with Range

Digit: from /to, Tablename: , Group: , Detail: , Use: ☒

TD DESCRIPTION | TG Description

- i. Click on the **CC Layout** tab to add the **Short** and **Long Description** as **Free Format** <Init>

S.30.01 Commodity Codes

CC Properties | Group/Part Description | **CC LAYOUT**

Group: XFF, Part: XPP, Commodity Code: FREE_FORM_RC

Type: Table Detail Based, Rule: X_FREE, Object:

Attribute Set: , Commodity Rule:

Layout Short: Free Format RC

Layout Long: Free Format RC

DETAILS | Attributes | Symbols | Additional TAG Info | S2008 | C

Build One Commodity | Build Ident | Build CC for Part(s) | Build C

Digit: from /to, Tablename: , Group: , Detail: , Use: ☒

TD DESCRIPTION

- j. Save the changes
- k. Do not close the screen

Lab 44. Build Idents for the Free Format CC (optional)

- o. Launch **"S.30.01 Commodity Codes"** Screen
- p. Ensure you are in the **Query Mode (F7)**
- q. Search for commodity code **FREE_FORMAT_<ID>** and click the **Build Ident** button

The screenshot shows the 'S.30.01 Commodity Codes' application window. It features a table with columns: Group, Part, Commodity Code, Short Desc, Standard, and CC Layout. The first row contains 'XFF', 'XPP', 'FREE_FORMAT_RC', 'Free Format RC', and 'SP'. Below the table, there are fields for 'Type' (Table Detail Based), 'Rule' (X_FREE), and 'Object'. A 'Build Ident' button is visible. A dialog box is open in the foreground, titled 'Use S.80.01', with a warning icon and the text 'Build Idents directly or use S.80.01 Build New Idents?'. The dialog has three buttons: 'Build directly', 'Move to S.80.01', and 'Cancel'.

- r. From the prompted dialog, click on the **Move to S.80.01** screen button.
 - i. FYI: Alternatively you could have launched **"S.80.01 Ident Management"** screen and searched for the Commodity Code **FREE_FORMAT_<ID>**.
- s. From the List of Values select **P_1N1S_E** for the **Object** field and save the changes

The screenshot shows the 'S.80.01 Ident Management' application window. It features a table with columns: Group, Part, Commodity Code, and Short Desc. The first row contains 'XFF', 'XPP', 'FREE_FORMAT_RC', and 'Free Format RC'. Below the table, there is a 'Display' dropdown menu set to 'All Commodity Codes' and an 'Object' field set to 'P_1N1S_E'. There is also a checkbox for 'Ident Block Query deferred'.

- t. Click on the **Object Parameter** tab to view the attributes needed to fully qualify the CC to build Idents. These attributes are associated with the **Object P_1N1S_E**.

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S.80.01 Ident Management

Commodity Codes

Group	Part	Commodity Code
XFF	XPP	FREE_FORMAT_RC

Display: **All Commodity Codes** Object: **P_1N_E**

☐ Ident Block Query deferred

CC PROPERTIES Group/Part Description CC Description

Short Desc: Free Format RC

Parameter Details

No.	Input?	Name	Ident?	Opt?	Attr Name	Unit	Kind of Detail	Short Desc
1	<input checked="" type="checkbox"/>	NPS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NPS1	in	1. Nominal Size	NPS 1

- u. Click on the **Commodity Geometric Relations** tab
- v. Add a new relation by selecting the **Geometric** table **P_BI_1NPS** (via LOV) with **From** and **To** range of **.5** to **24**. Also check the **Ident?** Checkbox.
- w. Save the changes
- x. System will display all the Sizes associated with the **Geometric P_BI_1NPS** in the **Geom Details** section of the **Only New Idents** tab.

S.80.01 Ident Management

Commodity Codes

Group	Part	Commodity Code
XFF	XPP	FREE_FORMAT_RC

Display: **All Commodity Codes** Object: **P_1N_E**

☐ Ident Block Query deferred

CC PROPERTIES Group/Part Description CC Description

Short Desc: Free Format RC

Only new Idents Existing Idents **COMMODITY GEOMETRIC RELATIONS**

Date/Time created: 23-JUN-2009 05:48:42 Geometric: **P_BI_1NPS** Project/PG: **SDB** From: **.5** To: **24**

☒ Ident? **Show reasons**

Geom Details

Unit System	NPS1	Unused	Unused	Unused	Unused	Unused
IMP/MET	.5	0	0	0	0	0
IMP/MET	.75	0	0	0	0	0
IMP/MET	1	0	0	0	0	0
IMP/MET	1.25	0	0	0	0	0
IMP/MET	1.5	0	0	0	0	0

- i. FYI: In the **Commodity Geometric Relations** tab, if the **Idents?** Is checked then the relationship will be used to build idents. Other relationships can be defined to specify unit weight, surface area and physical dimensions such as Face to Face, Face to Center etc. required by Designing and Modeling tools such as SP3D, PDS, PDMS. Do not check the **Idents?** for these relationships.
- iii. FYI: There are the four types of Geometric Tables i.e. **Commodity Geometrics** (to build Idents), **Standard Geometrics** (dimensions as per Standards), **Other Geometrics** (Non Commodity or Standards related geometric i.e. Gasket thickness) and **Filter Geometrics** (to limit valid idents for Specs).
- iv. FYI: Multiple relationships can be defined for the Commodity Group / Part by qualifying it with filters based on sizes and table details.
- y. Click on the **Only New Idents** tabs to create new idents. Let us assume that for this Free Format CC all the sizes are valid.

SDB@SDB SmartPlant Materials 2008 (6.3.3), Service Pack 2

File Edit Customer Menu Window Help

S.80.01 Ident Management

Commodity Codes

Group	Part	Commodity Code
XFF	XPP	FREE_FORMAT_RC

Display: All Commodity Codes Object: P_1N_E

☐ Ident Block Query deferred

CC PROPERTIES

Short Desc	CC
Free Format RC	

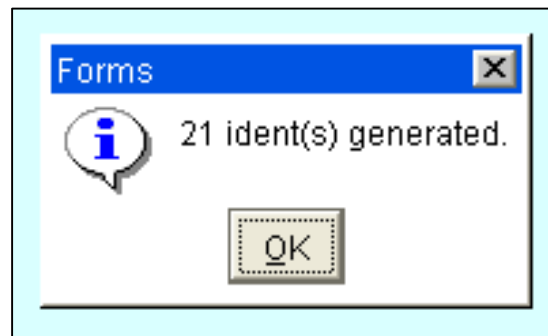
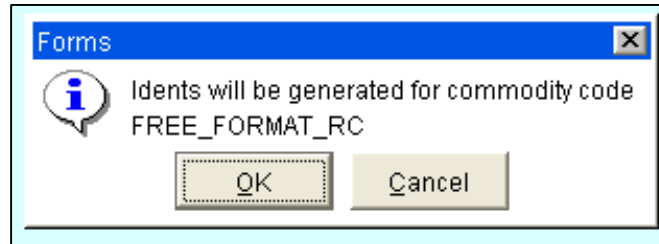
ONLY NEW IDENTs Existing Idents Commodity

Build queried Idents Build all Idents Build m

Unit System	Nps1	Ident Code
IMP/MET	.5	
IMP/MET	.75	
IMP/MET	1	
IMP/MET	1.25	
IMP/MET	1.5	
IMP/MET	2	

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- z. Click on the **Build all Idents** button to build idents. System will prompt for a confirmation to build idents. Click OK and the system will create all the idents and display the number of Idents created.



- aa. Click on the **Existing Idents** tab to review the idents that have been created.

S.80.01 Ident Management

Commodity Codes

Group	Part	Commodity Code
XFF	XPP	FREE_FORMAT_RC

Display

All Commodity Codes

☐ Ident Block Query deferred

Object

P_1N_E

CC PROPERTIES

Group/Part Description	CC Description	CC Layout
	Short Desc	Standard
	Free Format RC	

Only new Idents

EXISTING IDENTs

Commodity Geometric Relations

Object Parameter

Delete Idents

Ident Structure

Invalid Idents

Interf./Comp. Idents

Ident	Ident Code	Unit System	Ctrl	Project/PG	Nps1	TAG Number	Rev
3714648	I3714648	IMP/MET	1	SDB	.5		23-J
3714649	I3714649	IMP/MET	1	SDB	.75		23-J
3714650	I3714650	IMP/MET	1	SDB	1		23-J
3714651	I3714651	IMP/MET	1	SDB	1.25		23-J
3714652	I3714652	IMP/MET	1	SDB	1.5		23-J
3714658	I3714658	IMP/MET	1	SDB	2		23-J
3714659	I3714659	IMP/MET	1	SDB	2.5		23-J
3714663	I3714663	IMP/MET	1	SDB	3		23-J

- bb. Let us assume that the sizes .75", 1.25", 2.5" and 3.5" are not valid for this Commodity Code. **Click** on any field in these rows and press the **Delete** icon to delete the idents associated with sizes **.75, 1.25, 2.5 and 3.5**

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S.80.01 Ident Management

Commodity Codes			CC PROPERTIES	Group/Part Description	CC Description
Group	Part	Commodity Code	Short Desc		
XFF	XPP	FREE_FORMAT_RC	Free Format RC		
Display: All Commodity Codes			Object: P_1N_E		
<input type="checkbox"/> Ident Block Query deferred					

Only new Idents		EXISTING IDENTs		Commodity Geometric Relations		Object Parameter	
Delete Idents		Ident Structure		Invalid Idents		Interf./Comp. Id	
Ident	Ident Code	Unit System	Ctrl	Project/PG	Nps1	TAG Number	
3714648	I3714648	IMP/MET	1	SDB	.5		
3714650	I3714650	IMP/MET	1	SDB	1		
3714652	I3714652	IMP/MET	1	SDB	1.5		
3714658	I3714658	IMP/MET	1	SDB	2		
3714663	I3714663	IMP/MET	1	SDB	3		
3714665	I3714665	IMP/MET	1	SDB	4		
3714666	I3714666	IMP/MET	1	SDB	5		

- i. FYI: Every **Ident** is assigned a unique no. (**Ident** field). Additionally the system assigns an **Ident Code** (default is **Ident no** with a prefix of **I**). Rules can be defined to build ident codes as per user requirement.
- ii. FYI: You can change the Ident Code by typing in a relevant value in the Ident Code screen.
- cc. Close all the screens