



Virtual Shelf

User Guide
23 May 2020

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Click link and the hold 'CTRL' key to follow link

FOREWORD

This guide does not replace or amend any Department of Defense (DoD) instructions, regulations, and/or policies. The Product Data Reporting and Evaluation Program's (PDREP) Virtual Shelf is designed to work in concert with existing DoD and DON policies and processes. Its purpose is to assist users with the functionality of the PDREP- Virtual Shelf application and to facilitate compliance with DoD and Navy policy.

Refer to the appropriate service instructions and/or manuals for more information about DoD and Navy contracting program processes and requirements.

REFERENCES

1. Commonality Handbook
2. NAVSEA Instruction 4120.8A
3. NAVSEA NSWCPD MOU

INTRODUCTION

This document is intended to guide DoD personnel in the use of Product Data Reporting and Evaluation Program – Automated Information System (PDREP-AIS) and in the process of Virtual Shelf.

The PDREP application is accessible via the Product Data Reporting and Evaluation Program home page: <https://www.pdrep.csd.disa.mil/>

First time PDREP users will need to submit a User Access request form. Instructions are available on the PDREP home page as linked above. Click on [User Access Request](#) for instructions on filling out an access request form. Follow additional directions on the form itself to submit the request for access to the PDREP team.

Existing PDREP users can submit an access change request. To do this, log into the PDREP-AIS and hover over '[Your Name]' in the upper right corner of the page and click 'Access Change Request'. Update access request as desired. Enter a narrative to describe your change request and click submit account change request button.

Requests for assistance, improvement, or changes to any of the PDREP applications or the NSLC Detachment Portsmouth PDREP home page should be submitted to:

Online in the PDREP Application

If you are already a PDREP User, log on to PDREP: <https://www.pdrep.csd.disa.mil/>

Hover over 'Help' link at the top of the home page. Select the first option on the fly out to 'Contact Help Desk with comment, question, or feedback.'

If you wish to provide suggestions to change Virtual Shelf or other PDREP-AIS modules, from the same Help menu, select the 'Suggest a Change' option. The Customer Service Request (CSR) form will open. Instructions for completion are located at the top of the form.

Also, visit our [FAQ Page](#) – your question(s) may be easily answered there.

NSLC Portsmouth Help Desk

Commercial Phone: (207) 438-1690 / DSN 684-1690

FAX: (207) 438-6535 / DSN 684-6535

E-Mail: WEBPTSMH@navy.mil

Mailing Address

Naval Sea Logistics Center Portsmouth
Bldg. 153, 2nd Floor
Portsmouth Naval Shipyard
Portsmouth, NH 03804-5000

1 VIRTUAL SHELF ACCESS

Access Level	Description
No Access	Access to Virtual Shelf is prevented. If no other Virtual Shelf permissions are granted, then the Virtual Shelf application link does not appear on the Main Menu; otherwise, the application link will appear on the Main Menu. Record deletion is not permitted.
Virtual Shelf Government User	Provides access to Virtual Shelf. Allows the user to View Virtual Shelf Parts, View Virtual Shelf Specifications, Create Virtual Shelf Parts Feedback Report, and View Standard Parts Catalogs (SPC) and Common Parts Catalogs (CPC). Record deletion is not permitted.
Virtual Shelf Contractor User	Provides access to Virtual Shelf. Allows the user to View Virtual Shelf Parts, View Virtual Shelf Specifications, Create Feedback Attributes, and View SPC Part Catalogs. Record deletion is not permitted.
Total Ownership Cost Analyst	Provides access to Virtual Shelf. Allows the user to Edit Total Ownership Cost models, Create and Edit Variant Trees, View Virtual Shelf Parts, View Virtual Shelf Specifications, Create Virtual Shelf Parts Feedback Report, View SPC Part Catalogs, View CPC Part Catalog. Record deletion is not permitted.
Virtual Shelf Administrator	Provides access to Virtual Shelf. Allows the user to Edit Total Ownership Cost Models, Create and Edit Variant Trees, Edit Virtual Shelf Parts, Edit Virtual Shelf Specifications, Create Virtual Shelf Parts Feedback Report, and Edit SPC Part Catalogs. Record deletion is permitted.

NOTE: *Common Parts Catalogs (CPC) refers to PSNS Parts Catalog and NNSY Parts Catalogs Standard Parts Catalogs (SPC) refers to the Virtual Shelf Parts Catalog categories.*

2 ACCESSING THE VIRTUAL SHELF MODULE

Once the user has logged in, the PDREP Home page will display as shown in **Figure 2.1**. Depending on the user's access level, not all of the options may be listed.

**Please refer to PDREP User Access Request and Login Procedures.*



Welcome, USER GUIDE Last Logon: OCT 15, 2019 07:17 AM
[Home](#) • [Help](#) ▶ [User Profile](#) ▶ • [Logout](#)

APPLICATIONS

- Contract Award and Delivery Data (CAD) ▶
- Corrective Action Request (CAR) ▶
- Controlled Industrial Material (CIM) Search ▶
- Customer Service Request (CSR) ▶
- Engineering Referral System (ERS) ▶
- Material Inspection Record (MIR) ▶
- Product Quality Deficiency Report (PQDR) ▶
- QALI/Letter of Delegation (LOD) ▶
- Receipt Inspection Management System (RIMS) ▶
- Special Quality Data (SQD) ▶
- Supplier Audit Program (SAP) ▶
- Supply Action Module (SAM) ▶
- Supply Discrepancy Report (SDR) ▶
- Surveillance Plan (SP) ▶
- Survey (Pre/Post Award) ▶
- Test Records ▶
- Virtual Shelf (VSF)

SEARCHES

- Ad Hoc Reports
- CAGE ▶
- DODAAC ▶
- DUNS ▶
- External Links ▶
- FSC ▶
- GIDEP ▶
- Level 1/Subsafe Search ▶
- NSN ▶
- PDREP Search
- Qualified Product List ▶
- Requisition ▶
- Routing Identifier Code ▶
- UII Search
- User Search
- Warranty Search ▶

REPORTS

- Contractor Profile
- Material Profile

Figure 2.1

2.1 SELECTING VIRTUAL SHELF

Hover your mouse pointer over the Virtual Shelf (VSF) located on the upper left portion of the screen and click the link to the application (See **Figure 2.2**). After clicking the link, the VSF main page will open (See **Figure 2.3**).

FOUO UNCLASSIFIED FOUO

PDREP
Product Data Reporting and Evaluation Program

Welcome, USER GUIDE Last Logon: JAN 27, 2020 11:06 AM
[Home](#) • [Help](#) [User Profile](#) • [Logout](#)

APPLICATIONS		Recently Accessed Record(s)		
Record Type	Record Control Number	Last Accessed Date/Time		
ADMIN Links ▶				
Batch Upload ▶				
Contract Award and Delivery Data (CAD) ▶				
Corrective Action Request (CAR) ▶				
Controlled Industrial Material (CIM) Search ▶				
Customer Service Request (CSR) ▶				
Engineering Referral System (ERS)				
Material Inspection Record (MIR) ▶				
Product Quality Deficiency Report (PQDR) ▶				
QALI/Letter of Delegation (LOD) ▶				
Receipt Inspection Management System (RIMS)				
Special Quality Data (SQD) ▶				
Supplier Audit Program (SAP) ▶				
Supply Discrepancy Report (SDR) ▶				
Survey (Pre/Post Award) ▶				
Test Records ▶				
Virtual Shelf (VSF)				
Warranty ▶				
SEARCHES				
CAGE ▶				
DODAAC ▶				
DUNS ▶				
External Links ▶				
FSC ▶				
GIDEP ▶				
Level 1/Subsafe Search ▶				
NSN ▶				
PDREP Search				
Qualified Product List ▶				
Requisition ▶				
Routing Identifier Code ▶				
UII Search				
User Search ▶				
REPORTS				
Contractor Profile				
Material Profile				

PDREP-AIS Version : 5.7.100, Build Date : 01/22/2020
 Phone : (207) 438-1690 [Email Technical Support](#)

Figure 2.2

UNCLASSIFIED

PRODUCT DATA REPORTING AND EVALUATION PROGRAM (PDREP)

User Profile: USER GUIDE • Logout

VIRTUAL SHELF

[Home](#) |
 [Administrator](#) |
 [Technical Warrant Holder](#) |
 [Commonality Cost Model](#) |
 [Virtual Shelf Parts](#) |
 [Virtual Shelf Specifications](#) |
 [Part Catalogs](#)

Virtual Shelf




Welcome to the Virtual Shelf Work Space

If you have any questions regarding the Virtual Shelf workspace, please contact Technical Support at webptsmh@navy.mil.

[Commonality Handbook](#)

[Guidance Documents](#)
[NAVSEA Instruction 4120.8A](#)

[NAVSEA NSWCPD MOU](#)

PDREP NAVSEALOGCEN PORTSMOUTH, NH. Version : 5.7.100, Build Date : 01/22/2020
 Phone : (207) 438-1690 [Email Technical Support](#)
 January 27th 2020

Figure 2.3

3 GENERAL FUNCTIONALITY

The Virtual Shelf Module is a commonality tool that assists shipyards (private and government) in locating common parts used across hull classes and the fleet. Virtual Shelf allows users to search for parts by category and specification. Additionally, Virtual Shelf provides reporting metrics on several fiscal levels: Logistics support, Obsolescence, Maintenance and Repair, and Operating costs.

The commonality team from NSWC Philadelphia perform deep-dive analysis on all parts categories verifying data points are current and up to date. They gather data from shipyards and import into the module; analysis is performed within the Virtual Shelf. This data is then published for view for all Virtual Shelf users. All users have access to this information via the Virtual Shelf Parts and Specifications tabs.

There are many benefits for utilizing the Virtual Shelf. Time savings are realized because of reduction in time spent performing Deep Dive analysis. Cost analysis can be done in conjunction with commonality searches; providing synergies between shipyards. Advanced filtering allows the user to tailor information based on their immediate information needs.

3.1 GRID VIEW

- A. Many grid views are present throughout the Virtual Shelf application, and they tend to share several characteristics in how the user may interact with them. Many of the grid's controls (including grid refresh, clearing filters, etc...) appear at the top of the grid with an associated button that is activated with a single left-click.
- B. Immediately beneath the controls are the column names that tend to be specific to each individual grid, and these column names can often be sorted alphabetically by left clicking them once. One click will sort the rows alphabetically by that column, two clicks will sort them in descending order, and a third click will restore the grid to its original state.
- C. The column names with labels typically have a filtering feature in the row beneath them, designated by either a text box, a dropdown list, or a checkbox (See **Figure 3.1**). This feature is expanded upon in the paragraph.

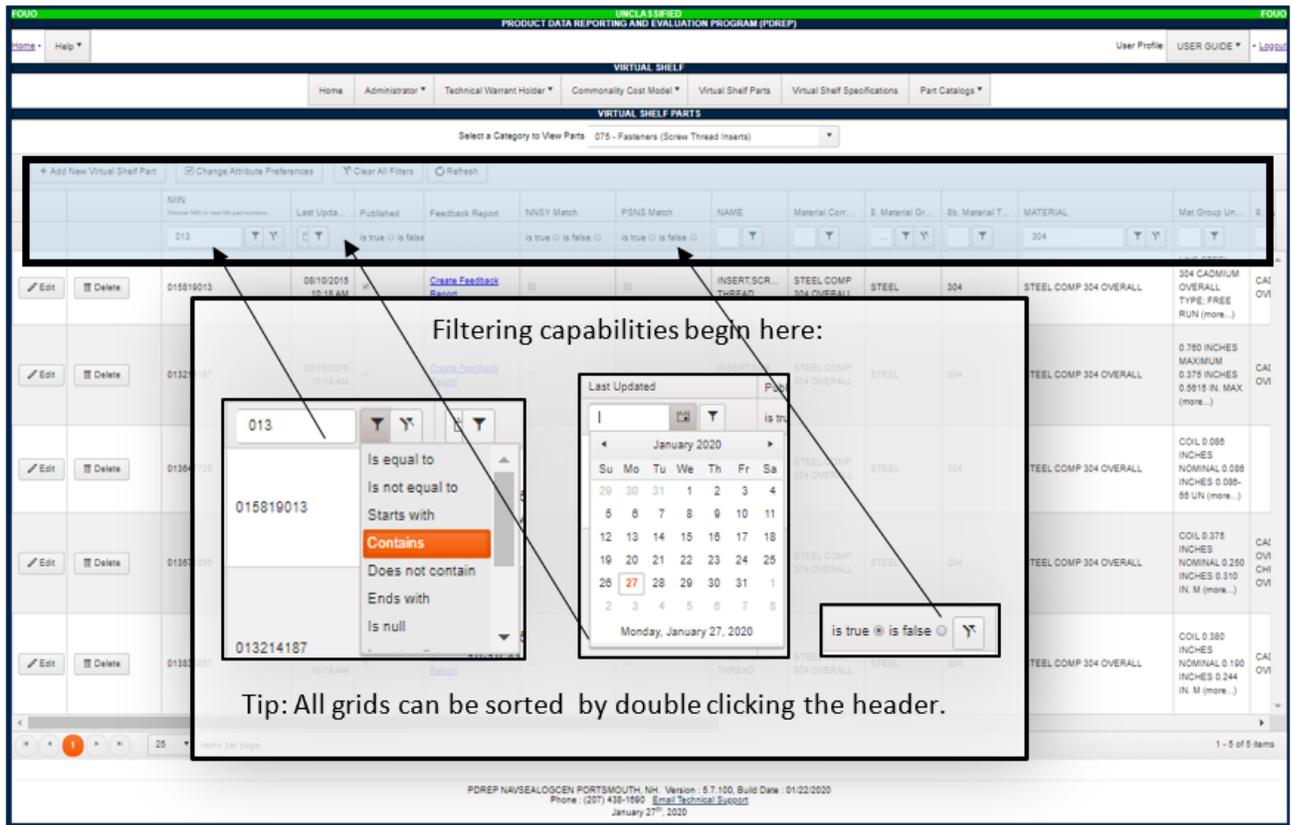


Figure 3.1

- D. The middle section of the grid depicts all the data present in the database for a grid. They are broken up into rows and columns, with the rows representing individual items and the columns representing the attributes that describe that item.
- E. Some of the grids on the Virtual Shelf require, and others require rows to be changed individually.
- F. When altering data on a batch-editing grid, the user is able to edit any number of fields currently being displayed on the grid, and in order to commit the changes the user must click on the 'Save Changes' button present at the top of the grid.
- G. When updating data in a grid that requires individual editing, the user will click on the 'Edit' button for that row and update the desired fields. Clicking 'Update' will commit the changes and return the grid view to normal.
- H. The filtering feature in the grid view gives the user the ability to exclude rows by inputting a value for the column and selecting an option. Some options include 'Contains,' 'Starts With,' 'Equal To,' 'Greater Than,' 'Is Null,' etc. If the user, for example, types in a value in the filter textbox and then selects 'Contains,' the grid will automatically retrieve all rows where the inputted value is an exact match to at least part of the text in that column (See **Figure 3.2**).

- I. Users can also apply filters to any number of columns to narrow down the results even further, but only one filter may be applied to a column at a time.

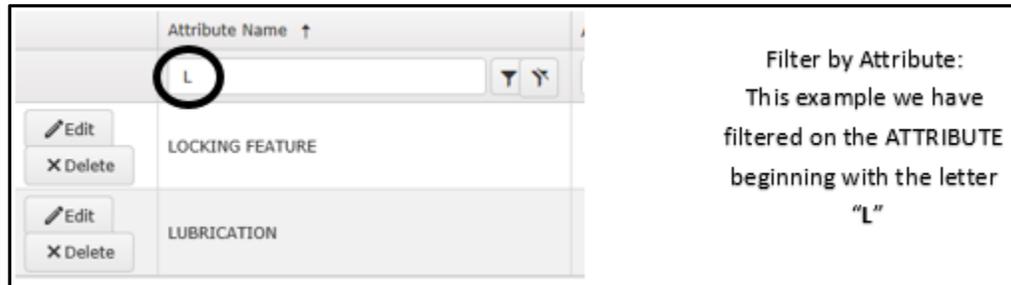


Figure 3.2

- J. Grid navigation and information about the data in the grid is available in the bottom strip. It includes the total number of pages, the page size, and the total number of items represented in the grid. On the left-hand side, the user has the ability to go from one page to the next by clicking on the arrow buttons. The 'greater than' arrows send you forward in the grid pages and the 'less than' arrows achieve the opposite. Clicking on the left-most arrow will send the user to the first page, with the right-most arrow sending the user to the last. By default, the number of rows in a grid is set to 25, but users also have the option of setting that value to 50 using the dropdown list next to the 'Page size:' text (See **Figure 3.3**).

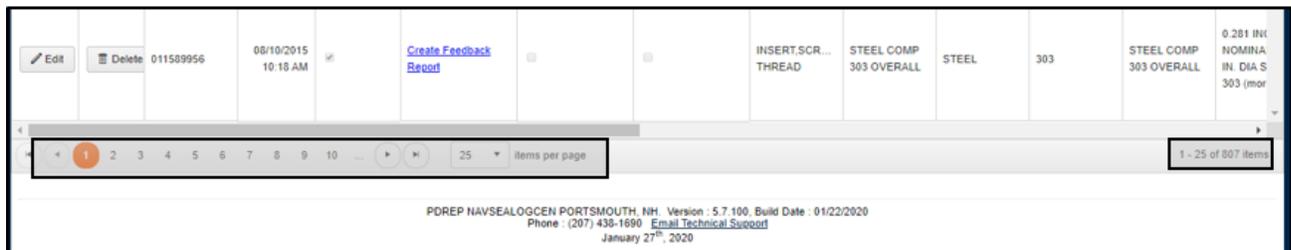


Figure 3.3

3.2 DATA IMPORTS

Virtual Shelf administrators can import data into the system. Selecting one of the options will load the page designed to import that type of data (See **Figure 3.4**). The user can then select a template file with added data to import, and upload it to the server. The system will load the contents of the file and copy the data into the appropriate tables within the Virtual Shelf database, making the data accessible to authorized users (based on user roles) through the Virtual Shelf site. The page will display the number of records created during a successful import, or an error message if the process fails. Details about the error are found in the Virtual Shelf log file after a failed import.

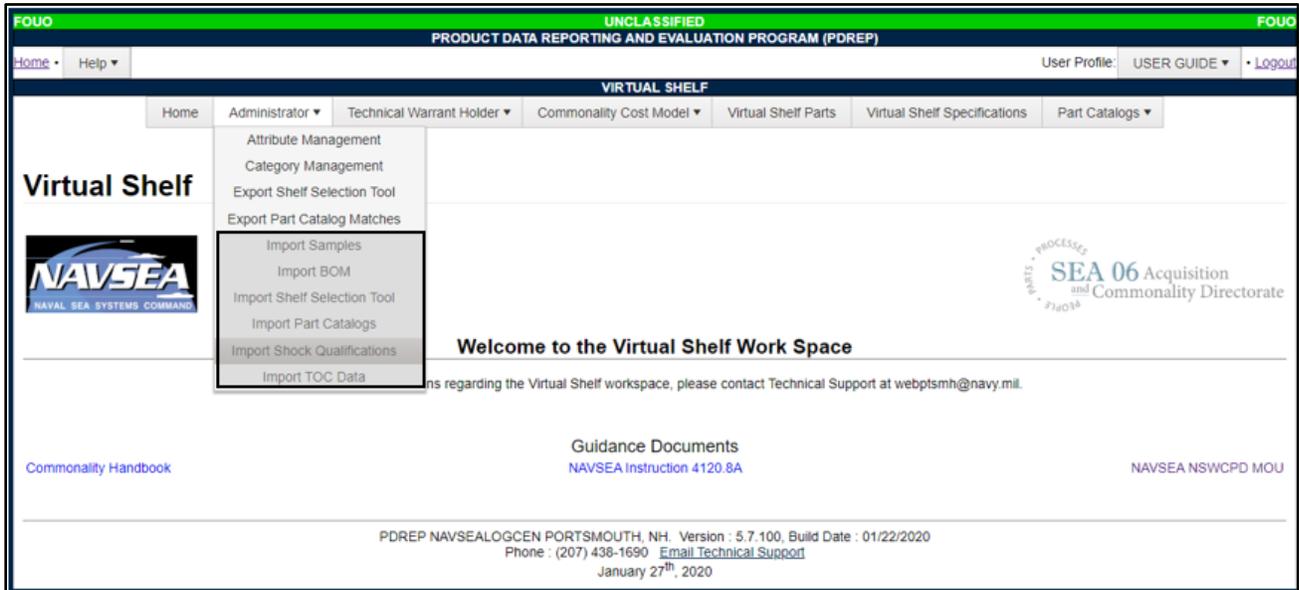


Figure 3.4

- A. **Import BOM:** this import option allows the user to import a Bill of Materials (BOM). The BOM file is a spreadsheet containing the name of the vessel, a parts listing, and other details. The import process will copy the relevant BOM data into the BCA portion of the Virtual Shelf database. The specific formatting for the input file is based on a template BOM provided. Deviations from the template BOM format are not supported.
- B. **Import Shelf Selection Tool:** The Shelf Selection Tool is a spreadsheet template (saved as Open XML) containing the attribute data for parts that need to be added to the Virtual Shelf.

The specific import process depends on which of the two legacy Shelf Selection Tool formats is used. This worksheet, Attribute Filters, (See **Figure 3.5**) requires an APL column, a NIIN column, and one column for each attribute specific to this part category (e.g., Motors) The spreadsheet also contains an Attribute Definitions (See **Figure 3.6**) worksheet, used to assign a definition for each attribute name.

	A	B	C	D	E	F	G
1	APL	NIIN	Attribute 1	Attribute 2	Attribute 3	Attribute 4	Attribute 5
2		{9 digits with no dashes}					
3							
4							
5	There can be NO extra rows, hidden columns, or changes in order to Columns A and B.						
6	Attributes beyond Columns A & B can added or removed for each upload... the Definitions should be updated to reflect						
7	column headers on Attribute Filters (Columns C thru ZZ). NIIN must be a valid NIIN.						

Figure 3.5

	A	
1	Attribute	Definition / UOM / Common Choices
2	Element	

Figure 3.6

The Fastener spreadsheet format (See **Figure 3.7**) is similar, except that the NIIN column is renamed NSN and the Deep Dive column is removed. Instead of a Deep Dive column, the worksheet containing the parts data must have its name set to the type of Fasteners being imported (See **Figure 3.8**). This is used to construct the Virtual Shelf Parts category name for Fasteners.

	A	B	C	D
1	NSN	NAME	FAMILY	TYPE
2		e.g. NUT, PLAIN, HEXAGON	NUT	e.g. HEX
3		e.g. NUT, PLAIN, LOCK	NUT	e.g. LOCK
4			NUT	
5			NUT	

Figure 3.7

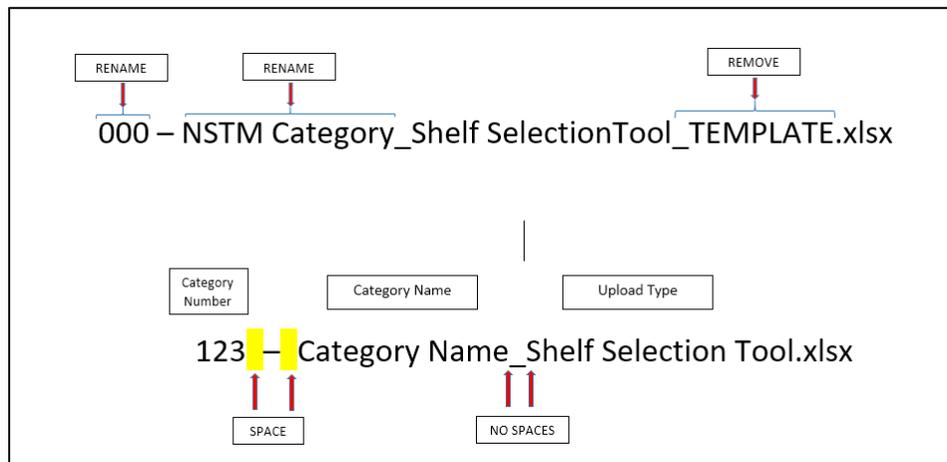


Figure 3.8

NOTE: The successful import of the spreadsheet will display the total number of parts added to the Virtual Shelf database (See **Figure 3.9**).

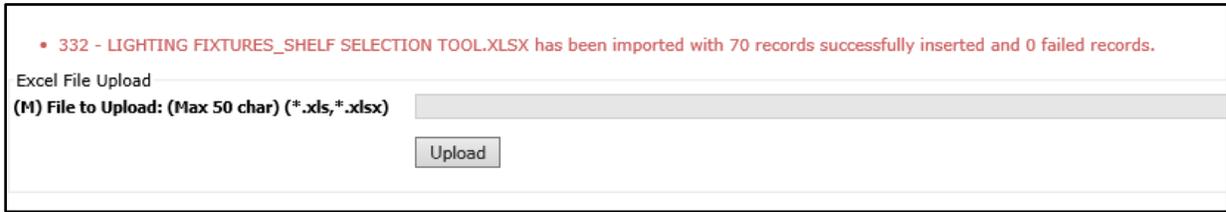


Figure 3.9

- C. **Import Part Catalogs:** The Standard Parts Catalog (SPC) for the Norfolk Naval Shipyard, referred to as NNSY and the Puget Sound Naval Shipyard, referred to as PSNS are databases containing parts data within single tables. The SPC data is imported into the new Virtual Shelf database to facilitate the mapping of Virtual Shelf parts to SPC parts and establishing commonality linkages.
- D. **Import TOC Data:** This page allows the administrator to upload a spreadsheet (saved as Open Xml) containing baseline TOC data for user with the Commonality Cost Model functionality. The import process will also assign default values to some standard logistics costs while creating the baseline. Spreadsheet requirements are as follows:
1. All worksheet names (e.g., Configuration) must match the exact names used in the template (See **Figure 3.10**).

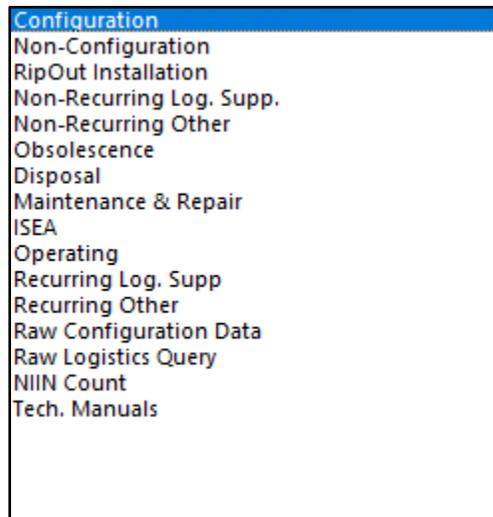


Figure 3.10

2. Columns must be arranged in the exact order found in the template (See **Figure 3.11**).
3. Any Extra columns, like the Capacity column in the template, are ignored by the importer and must be added after the columns used by the application (since a specific column order is expected).

4. The category name will be the first non-empty value in the 4th column of the Configuration worksheet. If no value exists, then a default name with a timestamp will be used.
5. The Configuration worksheet is used to create all missing UICs, Toc Units, and configuration records; it is best to define all hull/Unit combinations there. The importer will add new units and hulls if encountered on other worksheets. Worksheets featuring hulls and units not found in the Configuration tab will have the quantity field examined when creating the new records. This value is skipped whenever the importer already has a quantity for these combinations. If a worksheet does not list a quantity value, then the importer will use a default quantity of 1 for that record.
6. Use NA if you want to leave a numeric field blank.

	A	B	C	D	E	F	G
1	APL	Nomenclature	Manufacturer	Unit Cost	Year Procured	Spare Cost	NIIN Qu
2	088880031	nomen 1	Naval Sea Systems Command	\$359,228.00	NA	NA	75
3	080080007		Parker-Hannifin Corporation	\$0.00	NA	NA	49
4	08A140001		Parker-Hannifin Corporation	\$86,025.00	NA	NA	29
5	08A090005		Parker-Hannifin Corporation	\$84,375.00	NA	NA	47
6	08A090006		Parker-Hannifin Corporation	\$21,774.00	NA	NA	36
7	08A060010		Parker-Hannifin Corporation	\$154,574.00	NA	NA	47
8	08A060008	nomen 2	Aqua-Chem Inc	\$93,229.00	NA	NA	26

Figure 3.11

7. If no data exist for a worksheet, delete all rows except the header row.
8. Delete rows that contain only empty cells.
9. Paste Value into all cells to ensure no formulas are present.

3.3 DATA EXPORTS

This functionality is currently not operational.

4 VIRTUAL SHELF GOVERNMENT USER

4.1 VIRTUAL SHELF PARTS

Use the drop down to select a category of parts to review (See **Figure 4.1**).

The screenshot shows the top navigation bar with 'FOUO' on the left and 'UNCLASSIFIED' and 'FOUO' on the right. Below this is the 'PRODUCT DATA REPORTING AND EVALUATION PROGRAM (PDREP)' header. A navigation menu includes 'Home', 'Help', and 'User Profile: USER GUIDE' with a 'Logout' link. The main navigation bar contains 'Home', 'Administrator', 'Technical Warrant Holder', 'Commonality Cost Model', 'Virtual Shelf Parts', 'Virtual Shelf Specifications', and 'Part Catalogs'. The 'VIRTUAL SHELF PARTS' section features a dropdown menu labeled 'Select a Category to View Parts' with '-Select-' as the current selection. The footer contains the text: 'PDREP NAVSEALOGCEN PORTSMOUTH, NH. Version : 5.7.100, Build Date : 01/22/2020', 'Phone : (207) 438-1690', 'Email Technical Support', and 'January 27th, 2020'.

Figure 4.1

All Virtual Shelf part data can be viewed, edited, added, and removed using this grid (See **Figure 4.2**). The user can search the Virtual Shelf parts and initiate feedback reports from a category or a specific part from this page by clicking on the 'Feedback Report' link associated with each part entry. Each Virtual Shelf part record will also indicate if the part is listed in the Standard Parts Catalog (SPC) and provides a link to view that SPC data where matches exist. The virtual shelf parts grid requires rows to be edited individually.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

The screenshot shows the 'VIRTUAL SHELF PARTS' section with a dropdown menu set to '074 - Welding and Fabrication' and a message 'There are no parts in this category.' Below this are buttons for '+ Add New Virtual Shelf Part', 'Change Attribute Preferences', 'Clear All Filters', and 'Refresh'. The table has columns for 'NIIN' (with a rollover tooltip), 'Last Updated', 'Published' (with radio buttons for 'is true' and 'is false'), 'Feedback Report', 'NNSY Match' (with radio buttons for 'is true' and 'is false'), and 'PSNS Match' (with radio buttons for 'is true' and 'is false'). The table is currently empty, and a message 'No items to display' is shown in a box. The footer contains the same text as Figure 4.1.

Figure 4.2

4.2 VIRTUAL SHELF SPECIFICATIONS

Specification Data capabilities allow the Gov't User to view Deep Dive information for a specification-based Deep Dive (See **Figure 4.3** and **Figure 4.4**). This content is stored under a standard Category 'classification' and allows the user to see any descriptive entries for each file stored.

The system presents a link to [ASSIST](https://assist.dla.mil) which is an online repository of specifications that may be used as reference material for any stored information.

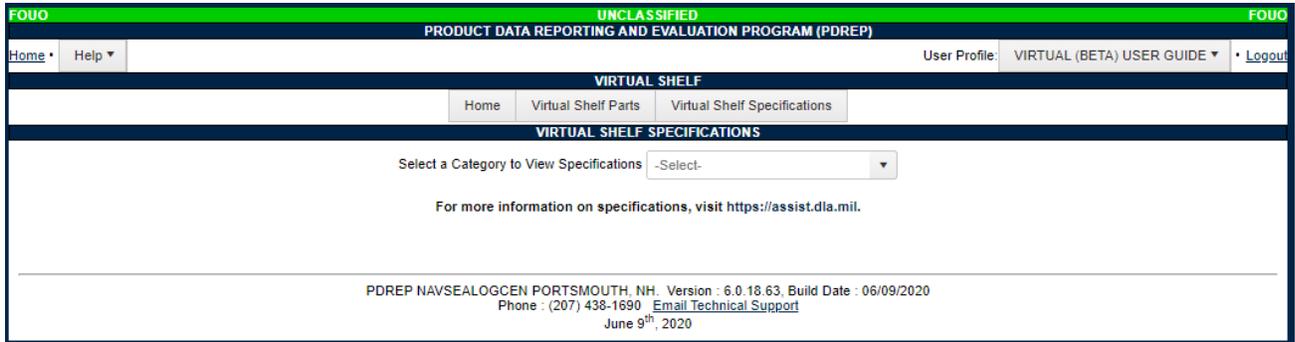


Figure 4.3

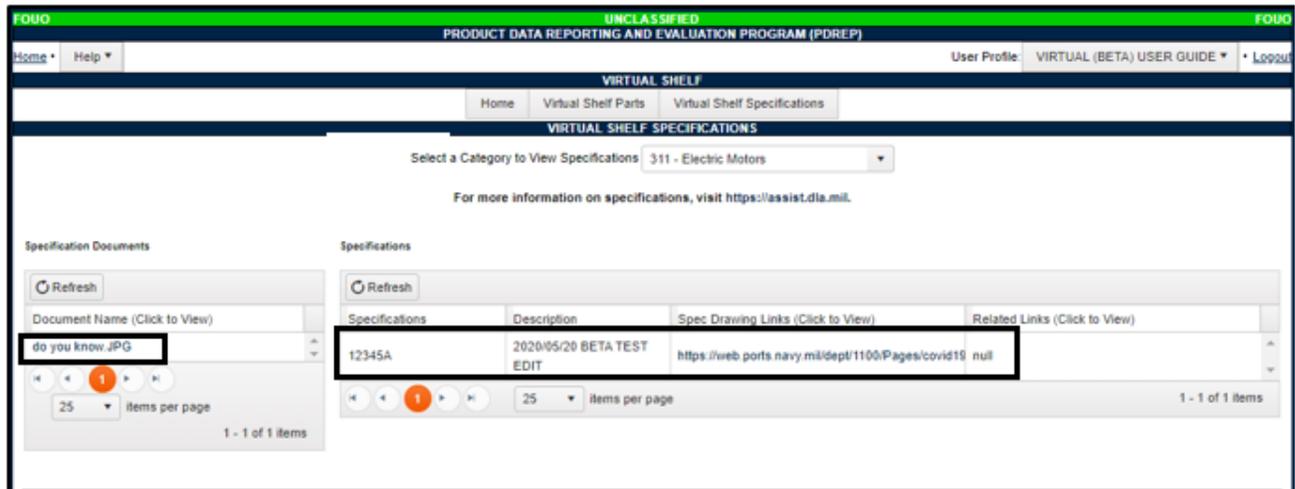


Figure 4.4

4.3 PART CATALOGS

The NNSY part catalog (See **Figure 4.5**) and PSNS catalog (See **Figure 4.6**) are represented by a read-only grids. The data in these grids comes from the import process described in [Section 3.2](#). There are two columns in the grid that provide a unique filtering feature; they are labeled 'VS Part Match' and 'VS Spec Match.' Both columns, respectively, give the user the ability to filter the grid based on where 'part' or 'spec' matches exist or do

not exist on the Virtual Shelf. The filters provide the user with insight on where there is overlap on the Virtual Shelf and the NNSY and PSNS parts catalogues.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid. It is important to note that each Catalog has different upload and reporting values.

FOUO		UNCLASSIFIED							FOUO				
PRODUCT DATA REPORTING AND EVALUATION PROGRAM (PDREP)													
Home		Help		User Profile: USER GUIDE						Logout			
VIRTUAL SHELF													
Home		Administrator		Technical Warrant Holder		Commonality Cost Model		Virtual Shelf Parts		Virtual Shelf Specifications		Part Catalogs	
NORFOLK NAVAL SHIPYARD (NNSY) - STANDARD PARTS CATALOG													
Clear All Filters										Refresh			
VS Part Match	VS Spec Match	ID	BR_ID	MTL_NO	MTL_CAT	NOUN_NM_CD	NNM_CD	SZ_CD					
is true <input type="radio"/> is false <input type="radio"/>	is true <input type="radio"/> is false <input type="radio"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
<input type="checkbox"/>	<input type="checkbox"/>	133	MCHRY	700369	VENT	AIC	SC-	030000					
<input type="checkbox"/>	<input type="checkbox"/>	134	MCHRY	700368	VENT	AIC	SC-	050000					
<input type="checkbox"/>	<input type="checkbox"/>	135	MCHRY	700367	VENT	AIC	SC-	070005					
<input type="checkbox"/>	<input type="checkbox"/>	136	MCHRY	401530	FILTR_AIR	AIF		310000					
<input type="checkbox"/>	<input type="checkbox"/>	137	MCHRY	401524	FILTR_AIR	AIF		311000					
<input type="checkbox"/>	<input type="checkbox"/>	138	MCHRY	401525	FILTR_AIR	AIF		312000					

Figure 4.5

FOUO		UNCLASSIFIED							FOUO				
PRODUCT DATA REPORTING AND EVALUATION PROGRAM (PDREP)													
Home		Help		User Profile: USER GUIDE						Logout			
VIRTUAL SHELF													
Home		Administrator		Technical Warrant Holder		Commonality Cost Model		Virtual Shelf Parts		Virtual Shelf Specifications		Part Catalogs	
PUGET SOUND NAVAL SHIPYARD (PSNS) - STANDARD PARTS CATALOG													
Clear All Filters										Refresh			
VS Part Match	VS Spec Match	STD_INDEX	NOMEN	NSN	DESCR1	DESCR2	REQT1	REQT2					
is true <input type="radio"/> is false <input type="radio"/>	is true <input type="radio"/> is false <input type="radio"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
<input type="checkbox"/>	<input type="checkbox"/>	doNotShowToolTip		X	ADHESIVE		LATEX						
<input type="checkbox"/>	<input type="checkbox"/>	100-001STRL	PAI	012851329	PAINT, ZINC MOLYBDATE	FORMULA 84 (PRIMER)							
<input type="checkbox"/>	<input type="checkbox"/>	100-010STRL	PAI		PAINT, EPOXY-POLYAMIDE	FORMULA 150							
<input type="checkbox"/>	<input type="checkbox"/>	100-011STRL	PAI		PAINT, EPOXY-POLYAMIDE	FORMULA 151							
<input type="checkbox"/>	<input type="checkbox"/>	100-020STRL	PAI	013445089	ENAMEL, CHLORINATED-ALKYD RESIN	FORMULA 124, SOFT WHITE							
<input type="checkbox"/>	<input type="checkbox"/>	100-032STRL	PAI	013562941	ENAMEL, SILICONE ALKYD COPOLYMER	GRAY DECK, COLOR #26231							
<input type="checkbox"/>	<input type="checkbox"/>	100-033STRL	PAI	013562938	ENAMEL, SILICONE ALKYD COPOLYMER	DULL BLACK COLOR #37038							
<input type="checkbox"/>	<input type="checkbox"/>	100-040STRL	PAI	013445320	ENAMEL, SILICONE ALKYD COPOLYMER	BLACK DECK COLOR #27038							

Figure 4.6

5 VIRTUAL SHELF CONTRACTOR USER

5.1 VIRTUAL SHELF PARTS

A selection is made with the drop down to select a category of parts to review (See **Figure 5.1**).

The screenshot shows the 'VIRTUAL SHELF PARTS' page. At the top, there is a green header with 'FOUO' on the left and 'UNCLASSIFIED' on the right. Below this is a dark blue header with 'PRODUCT DATA REPORTING AND EVALUATION PROGRAM (PDREP)'. The main content area has a white background with a dark blue border. It features a navigation bar with 'Home' and 'Help' on the left, and 'User Profile: VIRTUAL (BETA) USER GUIDE' and 'Logout' on the right. Below the navigation bar is a dark blue header with 'VIRTUAL SHELF'. Underneath, there are three buttons: 'Home', 'Virtual Shelf Parts', and 'Virtual Shelf Specifications'. The main content area has a dark blue header with 'VIRTUAL SHELF PARTS'. Below this, there is a text label 'Select a Category to View Parts' followed by a dropdown menu with '-Select-' as the selected option. At the bottom of the page, there is a footer with the text: 'PDREP NAVSEALOGCEN PORTSMOUTH, NH. Version : 6.0.18.63, Build Date : 06/09/2020', 'Phone : (207) 438-1690', and 'Email Technical Support'. The date 'June 9th, 2020' is also displayed.

Figure 5.1

All Virtual Shelf part data can be viewed and filtered using this grid (See **Figure 5.2**). The user can search the Virtual Shelf parts and initiate feedback reports from a category or a specific part from this page by clicking on the 'Feedback Report' link associated with each part entry. Each Virtual Shelf part record will also indicate if the part is listed in the Standard parts Catalog (SPC) and provides a link to view that SPC data where matches exist. The virtual shelf parts grid requires rows to be edited individually.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

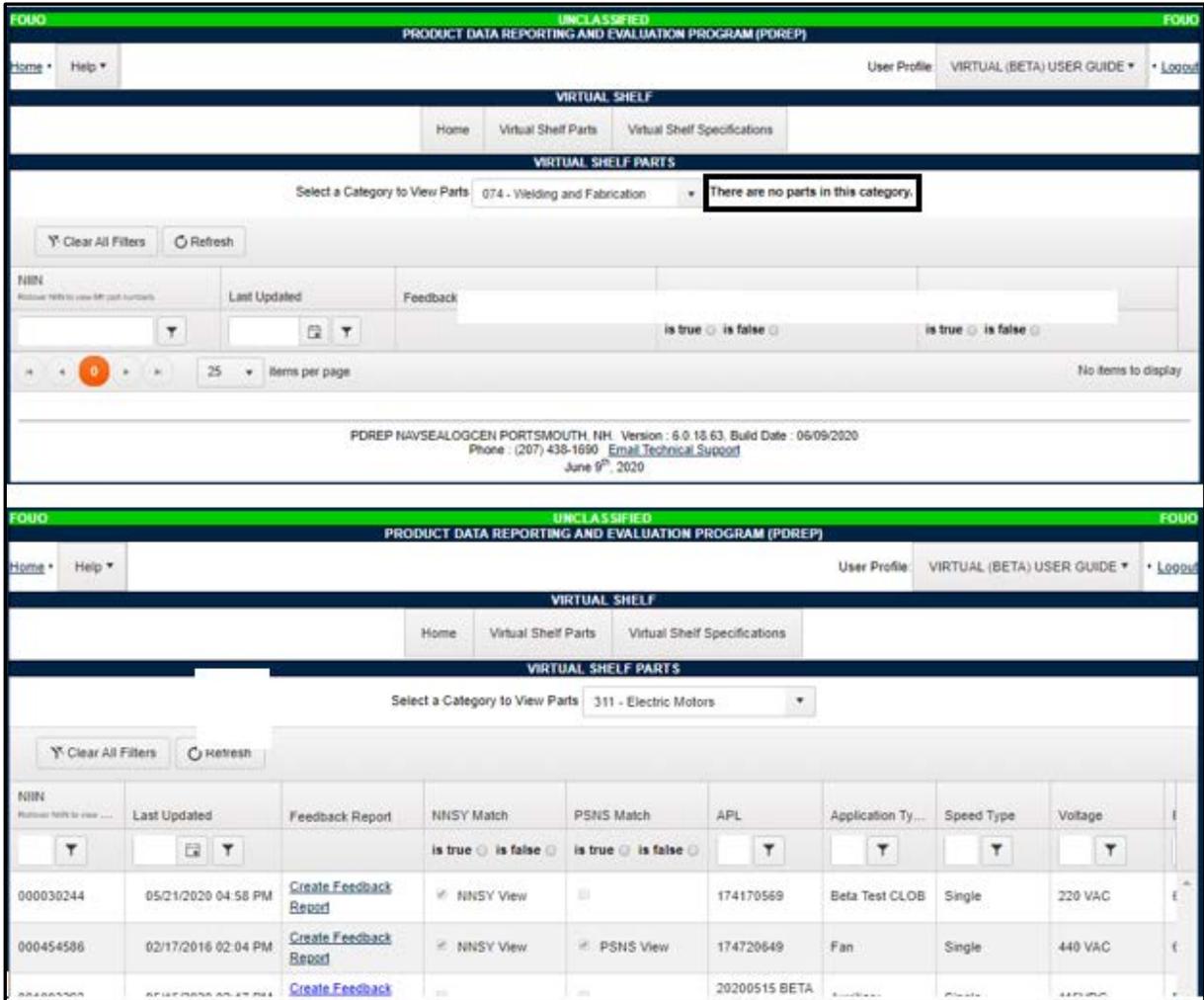


Figure 5.2

5.2 VIRTUAL SHELF SPECIFICATIONS

Specification Data capabilities allow the storage and retrieval of Deep Dive information for a specification-based Deep Dive (See **Figure 5.3**). This content is stored under a standard Category 'classification' and allows the view descriptive entries for each file stored and specifications impacted (See **Figure 5.5**).

The system presents a link to [ASSIST](#) which is an online repository of specifications that may be used as reference material for any stored information.

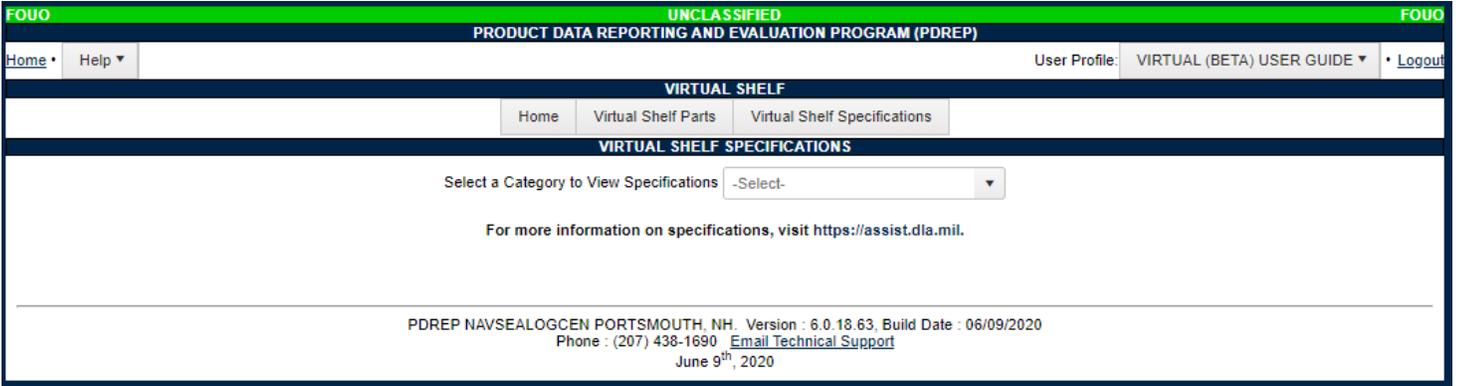


Figure 5.3

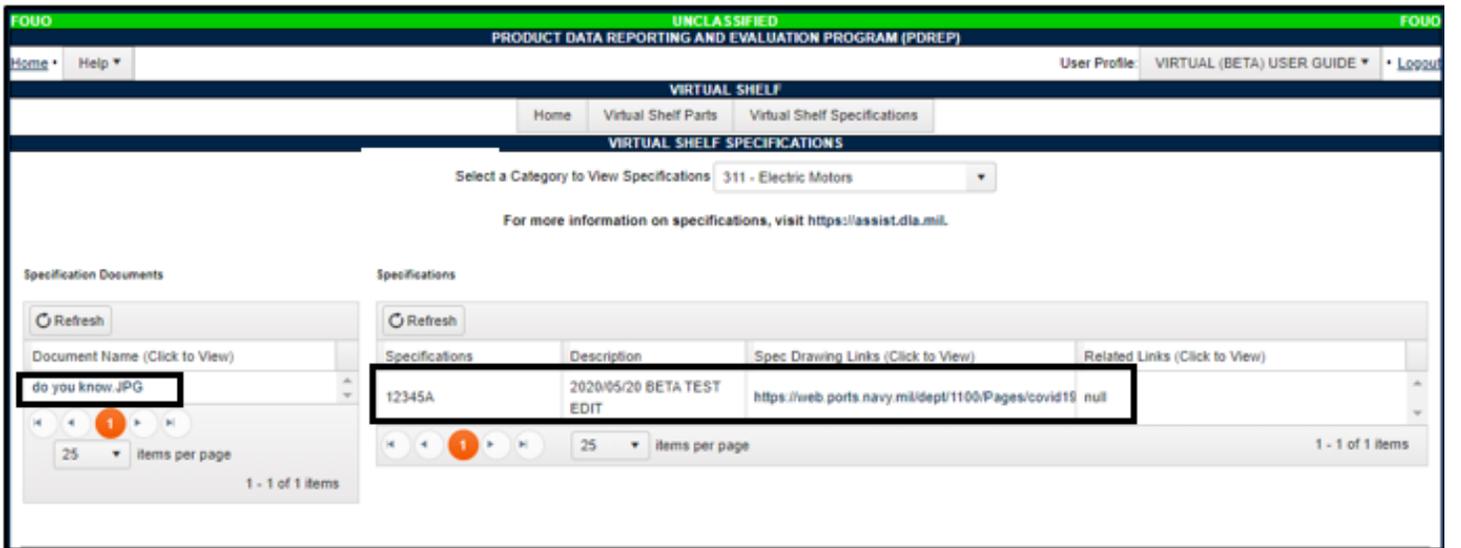


Figure 5.4

6 TOTAL COST OF OWNERSHIP ANALYST

6.1 COMMONALITY COST MODEL

- A. **Baseline:** It is necessary to select a parts category prior to viewing any data tabs (See **Figure 6.1**).



Figure 6.1

Excluding the sections related to the 'Variant Tree' and certain aspects of the 'Total Ownership Cost (TOC),' 'Obsolescence,' and 'Disposal' tabs, all the subsections below utilize grid views that have many characteristics in common. These grids also have a 'Batch Update Null Values' feature to make it easier to update all null values at once so that the user does not have to update each field individually (See **Figure 6.2**). The 'Batch Update Null Values' button is located in the top strip of the grid, and upon left clicking the button, a new window pops up that presents a list of all the writable fields in any given grid. The user can update all the null values in any desired field by inputting a value in the text box and left-clicking 'Perform Batch Update.' This will commit the value to all null fields in the chosen column and refresh the grid. Clicking the 'Cancel' button will close the window without making any changes to the data.

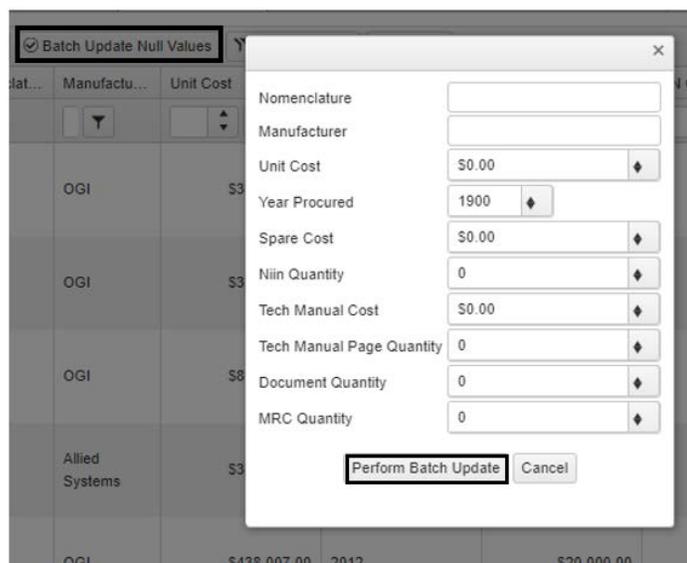


Figure 6.2

1. **Home Tab:** Contains several distinct areas used to capture and display data related to a baseline. From this tab, the baseline metadata can be edited and viewed (See **Figure 6.3**).

This data consists of the baseline name, description, type (part or system based) and the projected life of parts/systems.

The home tab is also the location where cost values that apply to the entire baseline are entered. Examples of these types of cost values are NIIN Maintenance Cost and Ship's Force Labor Rate.

It is also from the home tab where the Total Ownership Cost is calculated. Clicking the 'Save Category/Calculate TOC' button will save any changes to the baseline metadata or cost data entered on the home tab. It will also perform a TOC calculation for the baseline. Once a TOC calculation has been performed, the home tab will display information about the Total Ownership cost. It will display as text date the TOC calculation was performed and the TOC per year for the entire baseline. Additionally, the TOC per year will be displayed graphically in the form of a pie chart with each section representing the TOC amount for the various cost areas that comprise the baseline.

For additional information about the cost data grid, refer to [Section 3.1](#) for a description of how to use basic features of the grid.

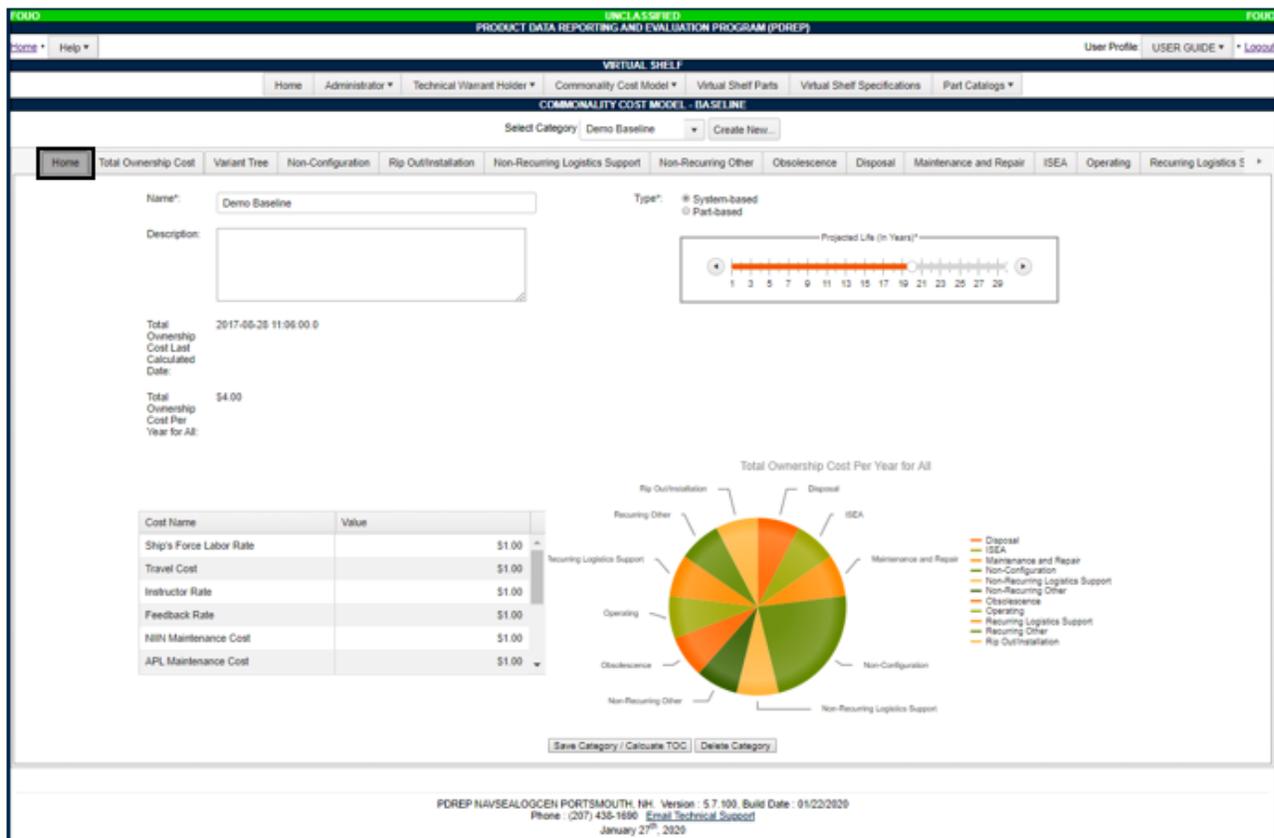


Figure 6.3

2. **Total Ownership Cost (TOC):** The Total Ownership Cost tab contains a read-only grid view that includes basic information that relates to the final TOC calculations for a category. The 'Total Ownership Cost Per Year' field (See **Figure 6.4**) will not have any data in it until all the relevant information in the cost tabs have been filled out and the user has calculated the TOC on the baseline 'Home' page.

The TOC can be recalculated at any time to reflect changes made in the other cost tabs, and once the TOC has been calculated the date and time of the calculation is reflected in the 'Total Ownership Cost Per Year' column header.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

Ship Hull	APL	Nomenclature	Quantity	Total Ownership Cost Per Year
CG 47	1		1	
CG 48	2		1	
CG 49	3		1	
CVN 65	4		1	
CVN 66	5		1	

Figure 6.4

3. **Variant Tree:** Variant Trees are constructed by the Total Ownership Cost Modeling Tool to provide a comprehensive view of the amount of variance inside a deep dive, and to ultimately indicate whether the deep dive candidate has much potential for TOC savings. Variant trees are accessible in the first subtab under the 'Variant Tree' baseline tab.

The four buttons at the top of the variant tree page include the 'Attribute Management' button, the 'Part/System Management' button, the 'Create Range Attribute' button, and the 'Upload Variant Tree' button. After the attribute hierarchy has been set via the 'Attribute Management' button (See **Figure 6.5**), the user can generate a variant tree at any point by clicking on the 'Generate Tree' button. When the 'Open New Window' button is checked, generating a tree will spawn in a separate window (See **Figure 6.6**).

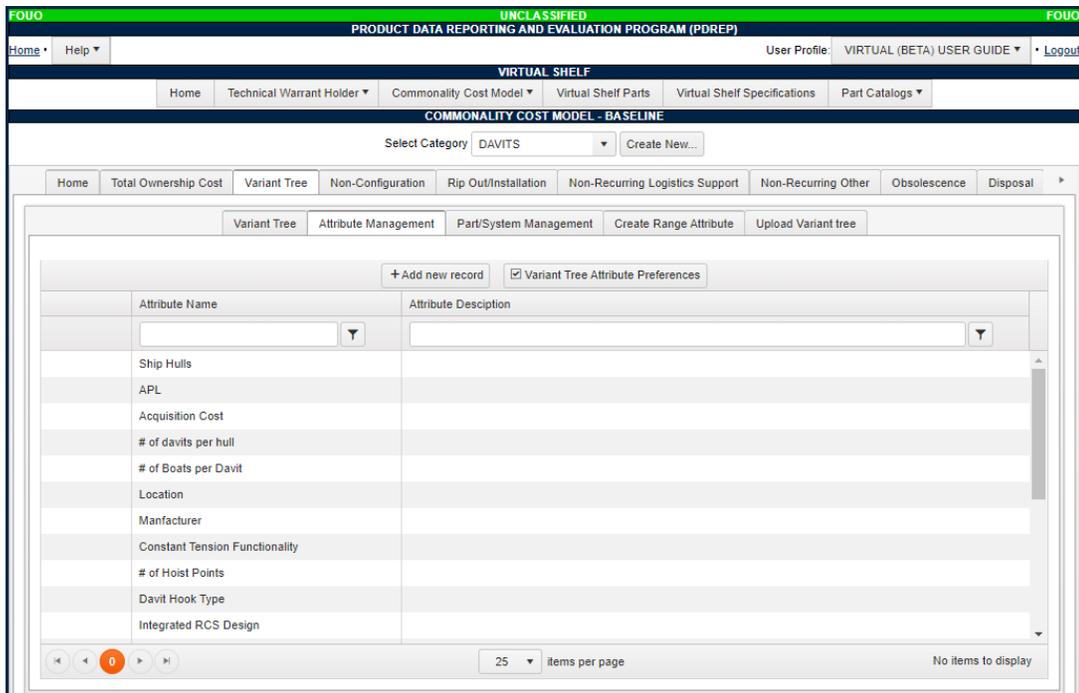


Figure 6.5

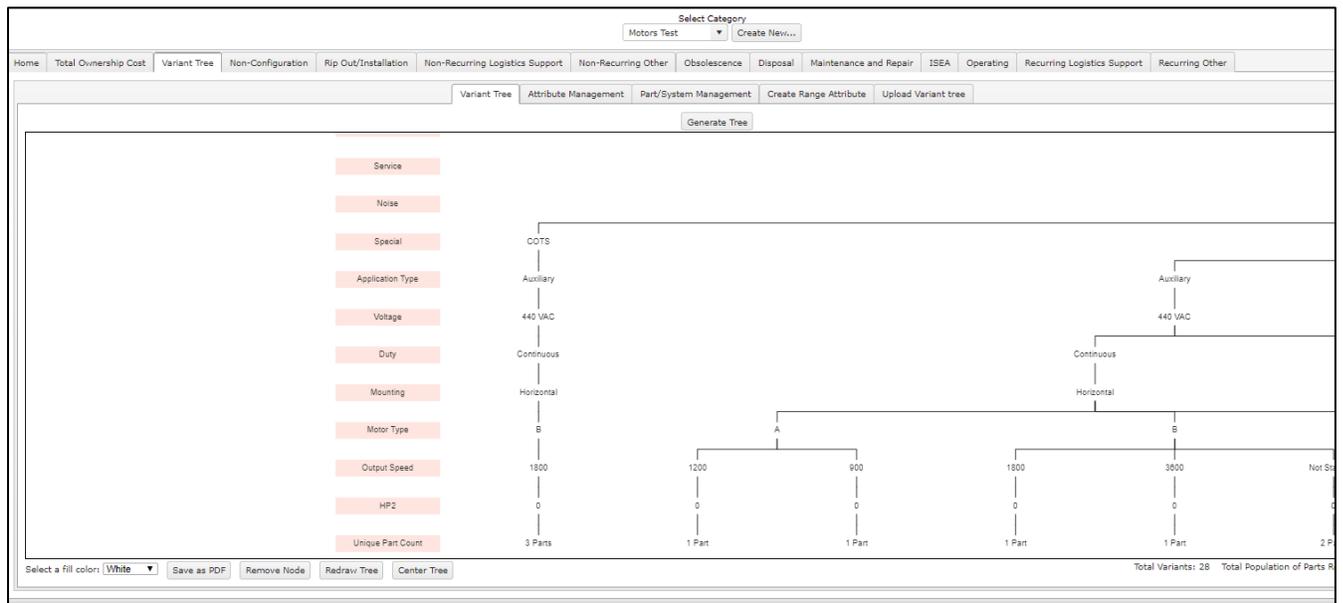


Figure 6.6

When viewing a completed variant tree, the user has a few ways in which they may interact with it.

Zooming in and out is achieved by scrolling forward or backward inside the window, and panning is done by holding the [Shift] key, clicking, and dragging towards the destination inside the window.

The default color for all the items in the tree is transparent, but the user has the ability to highlight attribute values and branches with various colors by selecting a color from a dropdown menu in the bottom-left. This highlighting feature is exercised simply by left clicking on an input field. Once a field is selected, the application changes the value's fill color to the color indicated, and will fill in the connected values above that value to the specified color. Selecting a shape will only affect that single value.

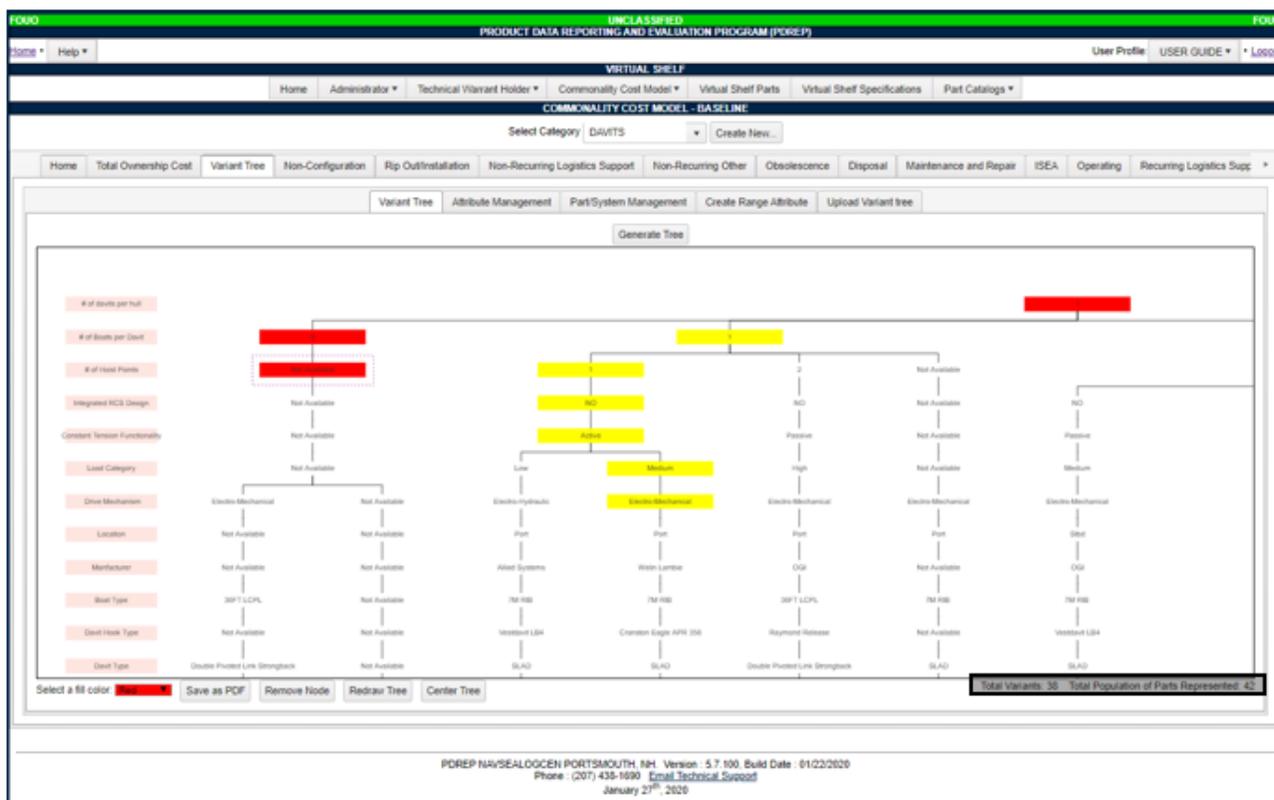


Figure 6.7

The fill color dropdown box also includes an option labeled 'Remove.' When this option is selected, clicking on a shape causes the shape to fill in with a black background. The application will then fill in every attribute item connected to the clicked shape beneath it with the black fill color and every shape above that has no other non-black shapes connected beneath it. In other words, the fill above stops occurring once a shape is encountered that has multiple shapes connected beneath it and at least one of those items does not have a black fill color. This is designed to prevent the default behavior of the system from breaking any necessary connections once the items are removed from the tree. Removal of these items is achieved by clicking on the 'Redraw Tree' button. When that button is clicked, the application looks for any items in the tree that have a black fill color and removes all shapes and connections associated with it. Once they are removed, the tree will automatically contract in size for the viewer, and if an entire tree is deleted the associated attribute labels (items with red font) are

also removed from the tree. The 'Total Variants' and 'Total Population of Items Represented' values in the bottom-right corner indicate, respectively, the total amount of branches in the tree and the total population of actual items being graphically depicted in the tree (See **Figure 6.7** and **Figure 6.8**). These values are both updated upon redrawing the tree so that they reflect the items that have been removed.

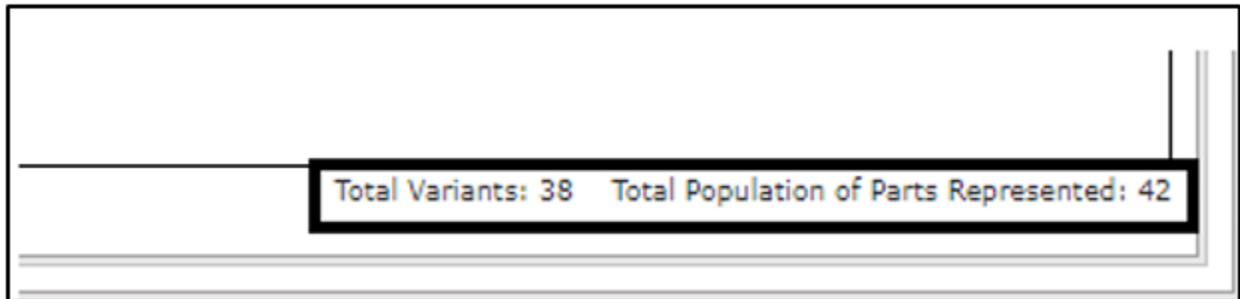


Figure 6.8

Users can also export the tree as a PDF or PNG file using the two respective buttons located under the window. Clicking on the 'Center Tree' button will re-center the tree in the visible window.

- i. **Variant Tree Attribute Selection:** After a variant tree has been uploaded to the database, the user is able to begin the tree initialization process by clicking on the 'Change Attributes' button present on the 'Variant Tree' subtab. As this button is clicked, a new window pops up that displays the various attributes present in the category (See **Figure 6.9**).

Within the 'Change Attributes' screen, there are two opportunities for editing: one is for editing attributes on the variant tree, and the other is to delete attributes. Deleting attributes permanently removes them from the database. They are not replaced until a new upload occurs that contains them. . The order of the attributes on the variant tree mirrors the exact order of the attributes listed in the Attribute Management. These 'variance' values can be compared to the 'Total Population of Parts/Systems' count that is generated in the bottom-left corner of the window.

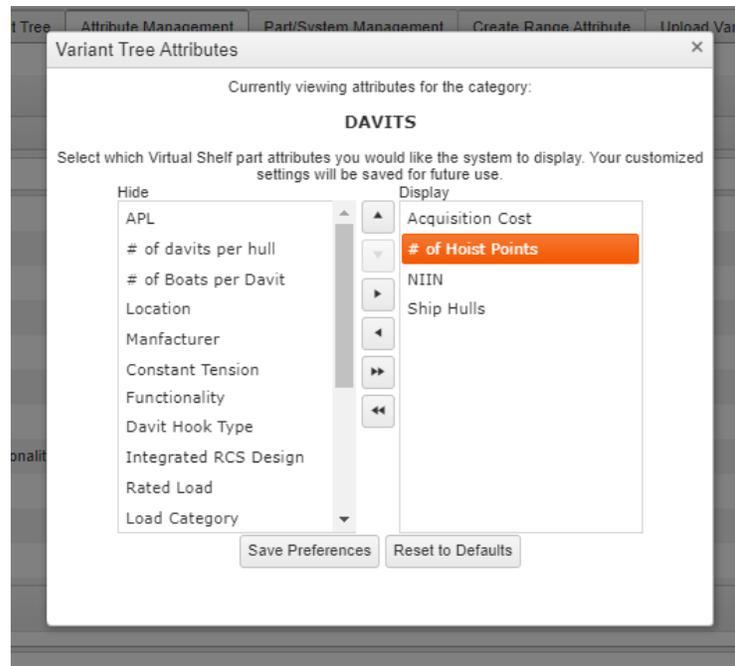


Figure 6.9

ii. **Variant Tree Attribute Management:**

The attribute management subtab (See **Figure 6.10**) in the Variant Tree allows the administrator and Total Ownership Cost Analysts to add new attribute fields used to store data in the Variant Tree. The Variant Tree attribute management grid requires rows to be edited individually.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

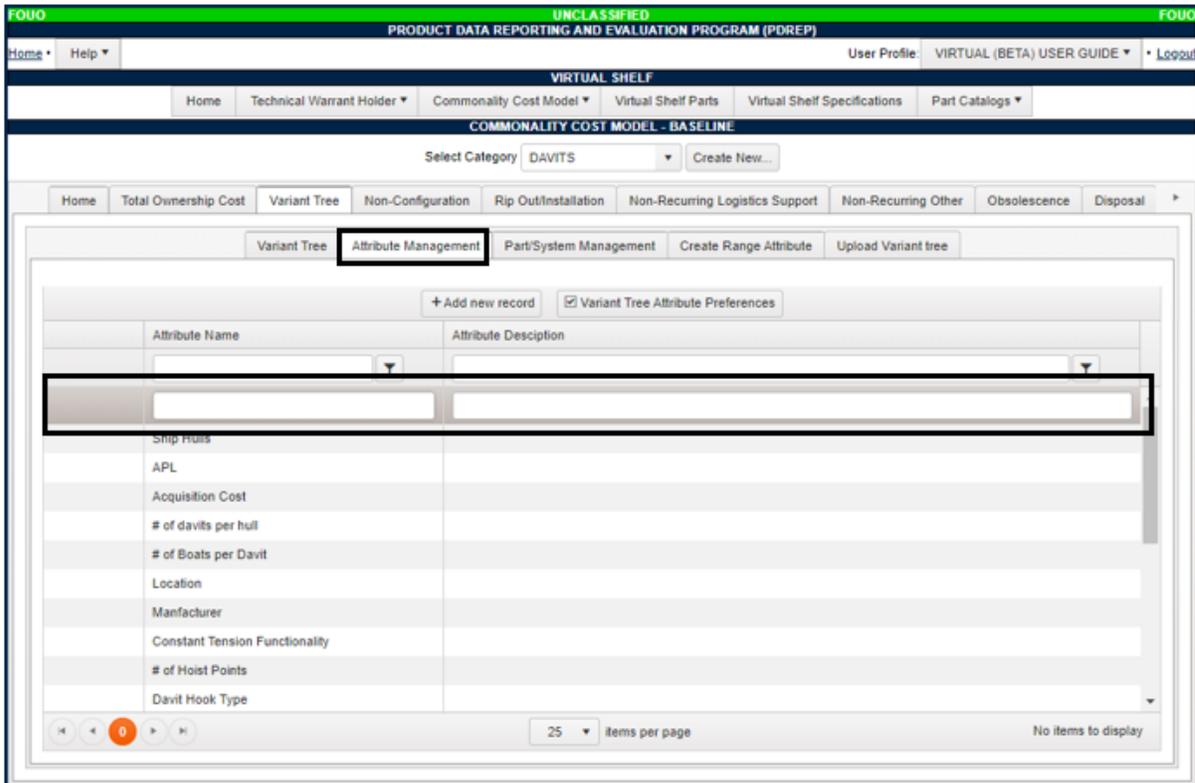


Figure 6.10

- iii. **Variant Tree Part/System Management:** The part/system management subtab (See **Figure 6.11**) in the Variant Tree allows the Total Ownership Cost Analysts to add new part/system fields used to store data in the Variant Tree. The Variant Tree part/system management grid requires rows to be edited individually.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

FOUO UNCLASSIFIED FOUO
 PRODUCT DATA REPORTING AND EVALUATION PROGRAM (PDREP)
 Home Help User Profile: VIRTUAL (BETA) USER GUIDE Logout

VIRTUAL SHELF
 Home Technical Warrant Holder Commonality Cost Model Virtual Shelf Parts Virtual Shelf Specifications Part Catalogs

COMMONALITY COST MODEL - BASELINE
 Select Category DAVITS Create New...

Home Total Ownership Cost Variant Tree Non-Configuration Rip Out/Installation Non-Recurring Logistics Support Non-Recurring Other Obsolescence Disposal

Variant Tree Attribute Management **Part/System Management** Create Range Attribute Upload Variant tree

+ Add new record

Ship Hulls	APL	Acquisition Cost	# of davits per hull	# of Boats per Davit	Location	Manufacturer	Constant Tension ...
NEW HULL	APL	SSSSS					
LHD 1, 2, 5	OGI-Fixed Overhanging1	5	2	1	Port	OGI	Passive
LCS 2	NotAvailable3	5	2	0	Not Available	Not Available	Not Available
LHD 3,4,6	56A080003	1646333	2	1	Port	Welin Lambie	Active
LHD 7 & 8	56A040016, 568880041	873818	2	1	Stbd	Allied Systems	Active
LHD 7 & 8	OGI-Fixed Overhanging2	5	2	1	Port	OGI	Passive
LPD 7, 8, 9	562000001	5	1	1	Port	Allied Systems	Active
LPD 17, 25	562000001	5	1	1	Port	Allied Systems	Active

25 Items per page 1 - 25 of 43 items

Figure 6.11

4. **Non Configuration:** The Non-Configuration tab contains data that pertains to the acquisition costs related to parts or systems in a category. It is the only grid view in the baseline tabs that is not configuration based; any changes made in this grid will ripple through all configurations that contain the modified NIIN or APL in this grid (See Figure 6.12).

FOOD												
UNCLASSIFIED												
PRODUCT DATA REPORTING AND EVALUATION PROGRAM (POREP)												
VIRTUAL SHELF												
COMMUNITY COST MODEL - BASELINE												
Select Category: DAIVTS												
Home Total Ownership Cost Variant Tree Non-Configuration Rip Out/Installation Non-Recurring Logistics Support Non-Recurring Other Obsolescence Disposal Maintenance and Repair ISEA Operating Recurring Logistics S												
Add New APL Save changes Batch Update Null Values Clear All Filters Refresh												
APL	Nomenclature	Manufacturer	Unit Cost	Year Procured	Spare Cost	NIIN Quantity	Tech Manual Cost	Tech Manual Page ...	Document Quantity	MRC Quantity		
Edit APL X Delete	560270029	OGI	\$300,000.00	2012	\$20,000.00	49	\$98,537.00	200	100	24		
Edit APL X Delete	560270051	OGI	\$300,000.00	2012	\$20,000.00	133	\$98,537.00	200	100	27		
Edit APL X Delete	560270069	OGI	\$875,000.00	2012	\$20,000.00	219	\$98,537.00	200	100	27		
Edit APL X Delete	562000002	Allied Systems	\$300,000.00	2012	\$20,000.00	95	\$98,537.00	200	100	24		
Edit APL X Delete	568880034	OGI	\$438,807.00	2012	\$20,000.00	0	\$98,537.00	200	100	27		
Edit APL X Delete	568880040A	OGI	\$438,807.00	2012	\$20,000.00	200	\$98,537.00	200	100	27		
Edit APL X Delete	568880041	Allied Systems	\$253,818.00	2012	\$20,000.00	96	\$98,537.00	200	100	21		
Edit APL X Delete	568880045	Vestdavit	\$312,810.00	2012	\$20,000.00	91	\$98,537.00	200	100	22		
Edit APL X Delete	568880047	Vestdavit	\$312,810.00	2012	\$20,000.00	0	\$98,537.00	200	100	22		
Edit APL X Delete	56A000002	Vestdavit	\$330,801.00	2012	\$20,000.00	215	\$98,537.00	200	100	22		
Edit APL X Delete	56A020001	Vestdavit	\$312,810.00	2012	\$20,000.00	0	\$98,537.00	200	100	22		

Figure 6.12

When the user left clicks either 'Add New NIIN/APL' or the edit button in a row, a new window pops up (See Figure 6.13) with a list of hulls that can be applied to the item. When editing an existing NIIN or APL, the hulls that have already been included for that item are checked off, along with the associated quantity. The user has the option of deselecting any desired hulls, increasing or decreasing the quantity, or adding new hulls for new configurations. Changes are committed by clicking on the save button; alternatively, any changes are discarded by clicking cancel.

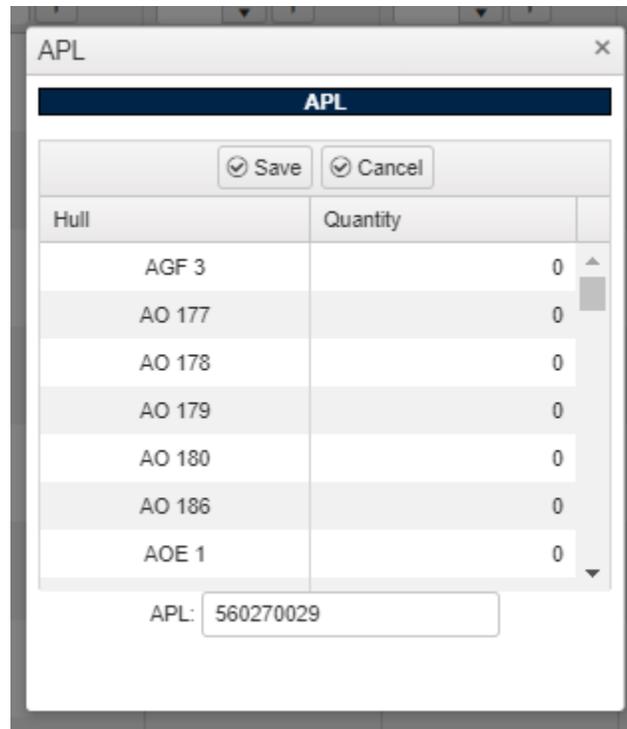


Figure 6.13

Outside of modifying NIIN/APL configurations, batch updating is utilized to modify all data in the grid.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

5. **Rip Out/Installation:** The Rip Out/Installation tab (See **Figure 6.14**) contains the cost information related to removing and installing parts or systems. The grid displays each configuration in the baseline and will allow for the number of man-hours to be entered for each configuration. The number of man-hours is multiplied by the Ship's Force Labor Rate to calculate the Rip Out/Installation cost for a given configuration.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

Ship Hull	APL	Nomenclature	Quantity	Number Man Hours
DDG	560270069			
DDG 51	560270069		2	190.00
DDG 52	560270069		1	190.00
DDG 53	560270069		1	190.00
DDG 54	560270069		1	190.00
DDG 55	560270069		1	190.00
DDG 56	560270069		1	190.00
DDG 57	560270069		1	190.00
DDG 58	560270069		1	190.00
DDG 59	560270069		1	190.00
DDG 60	560270069		1	190.00

Figure 6.14

- Non-Recurring Logistics Support:** The Non-Recurring Logistics Support tab (See **Figure 6.15**) contains the cost information related to the one-time logistics costs for each configuration. The grid displays each configuration in the baseline and will allow the logistics data to be entered for each configuration. The logistics data consists of training data such as the number of trainings, hours per training, sailors per training, and instructors per training. These values are combined with baseline cost data entered on the home tab to calculate the Non-Recurring Logistics Support cost for a given configuration.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

Ship Hull	APL	Nomenclature	Quantity	Number Trainings Per Year	Hours Training Per Person	Sailors Per Training	Number Instructors Per Training
CG 47	56A000002		1	1	8.00	9	3
CG 48	56A000002		1	1	8.00	9	3
CG 50	56A000002		1	1	8.00	9	3
CG 51	56A000002		1	1	8.00	9	3
CG 52	56A000002		1	1	8.00	9	3
CG 53	56A000002		1	1	8.00	9	3
CG 54	56A000002		1	1	8.00	9	3
CG 55	56A000002		1	1	8.00	9	3
CG 56	56A000002		1	1	8.00	9	3
CG 57	56A000002		1	1	8.00	9	3
CG 58	56A000002		1	1	8.00	9	3
CG 59	56A000002		1	1	8.00	9	3
CG 60	56A000002		1	1	8.00	9	3
CG 61	56A000002		1	1	8.00	9	3
CG 62	56A000002		1	1	8.00	9	3
CG 63	56A000002		1	1	8.00	9	3
CG 64	56A000002		1	1	8.00	9	3

Figure 6.15

7. **Non-Recurring Other:** The Non-Recurring Other tab (See **Figure 6.16**) contains the cost information related to the one-time costs for each configuration that do not fall into any of the other cost categories. The grid displays each configuration in the baseline and will allow the other cost data to be entered for each configuration.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

Ship Hull	unIdentifier	Nomenclature	Quantity	Non-Recurring Other Cost
AGF 3	56000041		1	\$700,000.00
AGF 3	Test		1	
AO 177	560270069		1	\$425,000.00
AO 178	560270069		1	\$425,000.00
AO 179	560270069		1	\$425,000.00
AO 180	560270069		1	\$425,000.00
AO 186	560270069		1	\$425,000.00
AOE 1	56000041		1	\$700,000.00
AOE 2	56000041		2	\$700,000.00
AOE 3	56000041		2	\$700,000.00
AOE 4	56000041		2	\$700,000.00
CG 47	561000002		1	\$418,181.82
CG 47	560270051		1	\$423,529.41

Figure 6.16

8. **Obsolescence:** Obsolescence data (See **Figure 6.17**) is represented by a read-only grid that contains the 'Obsolescence Percentage' as it relates to a configuration. The 'Obsolescence Percentage' value is a cost rating that is ultimately expressed as a fraction of the configuration's acquisition cost. To edit this value, the user must either click on the edit button for a row (the pencil in the first column), or the 'Set Default Obsolescence' button at the top of the grid. 'Set Default Obsolescence' will overwrite all 'Obsolescence Percentage' values for that category, while clicking on a single row will only modify the value for one configuration. When either button is clicked, a 10x10 matrix pops up in a new window. The 'Obsolescence Percentage' is determined by adding an item's 'Maturity Rating' and 'Complexity Rating' together. Both 'Complexity Rating' and 'Maturity Rating' are rated by the user on a scale of one to ten, with higher values indicating a greater cost. The user alters these values by left clicking a square in the matrix and then left clicking the 'Save Obsolescence' button. Clicking 'Cancel' will close the window without altering the 'Obsolescence Percentage.'

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

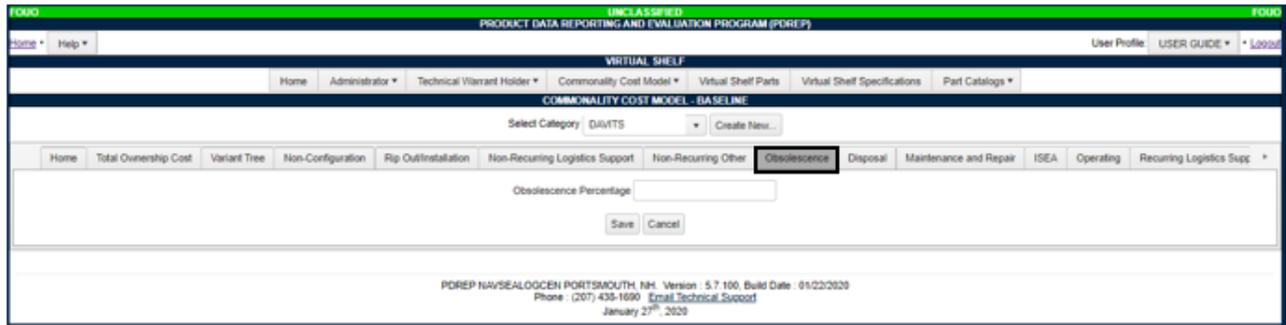


Figure 6.17

9. **Disposal:** Disposal data (See Figure 6.18) is represented by a read-only grid that contains the 'Disposal Percentage' as it relates to a configuration. The 'Disposal Percentage' value is a cost rating that is ultimately expressed as a fraction of the configuration's acquisition cost. To edit this value, the user must either click on the edit button for a row (the pencil in the first column), or the 'Set Default Disposal' button at the top of the grid. 'Set Default Disposal' will overwrite all 'Disposal Percentage' values for that category, while clicking on a single row will only modify the value for one configuration. When either button is clicked, a 10 x 10 matrix pops up in a new window. The 'Disposal Percentage' is determined by adding an item's 'Reparability Rating' and 'Degree of Risk' together. Both 'Reparability Rating' and 'Degree of Risk' are rated by the user on a scale of one to ten, with higher values indicating a greater cost. The user alters these values by left clicking a square in the matrix and then left clicking the 'Save Disposal' button. Clicking 'Cancel' will close the window without altering the 'Disposal Percentage.' Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

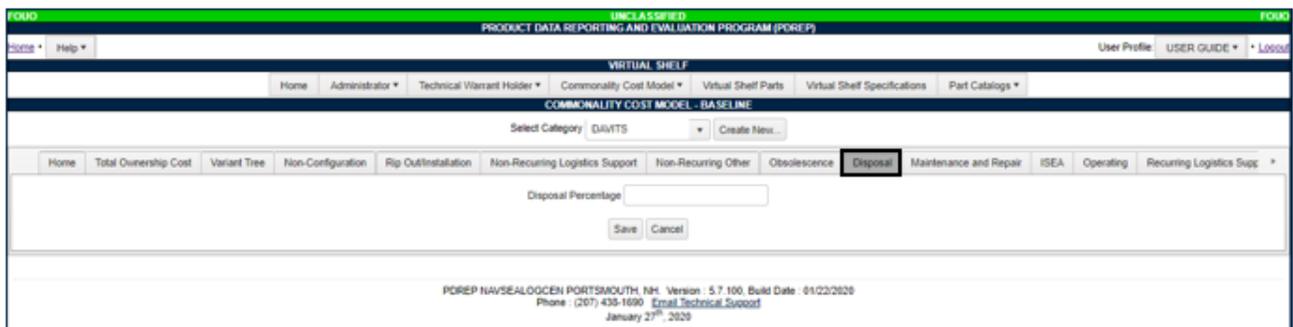


Figure 6.18

10. **Maintenance and Repair:** The Maintenance and Repair tab (See Figure 6.19) contains the cost information related to the maintenance and repair costs for each configuration. The grid displays each configuration in the baseline and will allow for the maintenance and repair data to be entered for each configuration. The maintenance and repair data consists of data such as

the projected MRC hours, I Material Cost, D Average and Unplanned Average. These values are combined with baseline cost data entered on the home tab to calculate the maintenance and repair cost for a given configuration.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

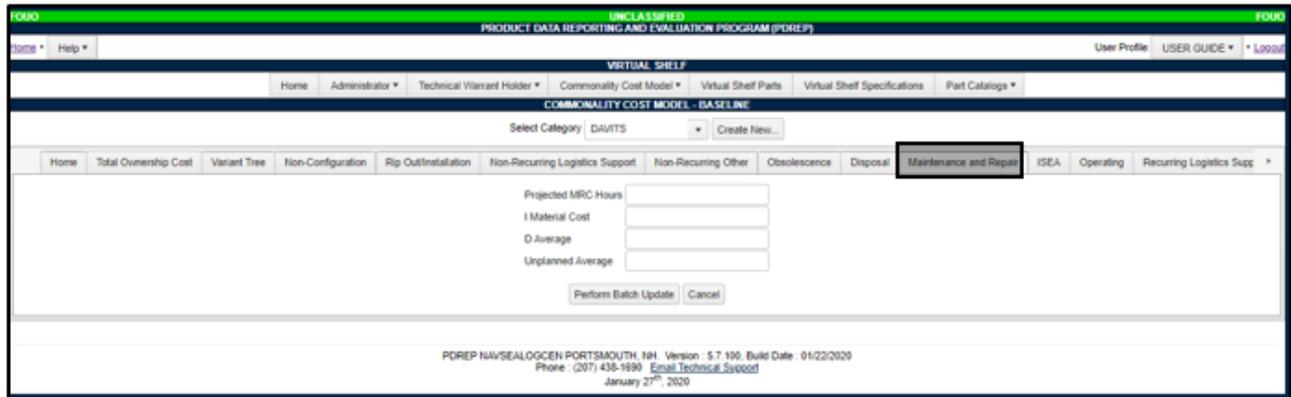


Figure 6.19

11. **ISEA:** The ISEA grid (See **Figure 6.20**) contains editable configuration data related to ISEA costs that are utilized to calculate total ownership costs for a category. This grid is being used as a placeholder as it is not currently being used in the TOC calculation.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.



Figure 6.20

12. **Operating:** The Operating tab (See **Figure 6.21**) contains the cost information related to the operating costs for each configuration. The grid displays each configuration in the baseline and will allow the operating data to be entered for each configuration. The operating data consists of data such as the Operational Rate, Operational Hours, Fuel Cost Per Hour, Hours Fuel Operation, Fuel Consumption and Power. These values are combined with

baseline cost data entered on the home tab to calculate the operating cost for a given configuration.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

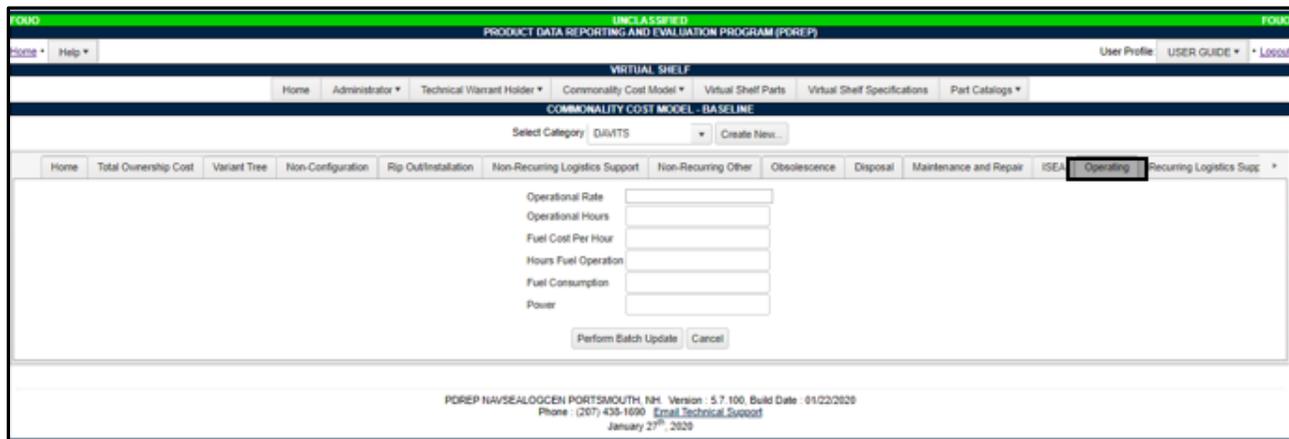


Figure 6.21

13. **Recurring Logistics Support:** The Recurring Logistics Support tab (See [Figure 6.22](#)) contains the cost information related to the recurring logistics costs for each configuration. The grid displays each configuration in the baseline and will allow the logistics data to be entered for each configuration. The logistics data consists of training data such as the number of trainings, hours per training, sailors per training, and instructors per training. These values are combined with baseline cost data entered on the home tab to calculate the Recurring Logistics Support cost for a given configuration.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

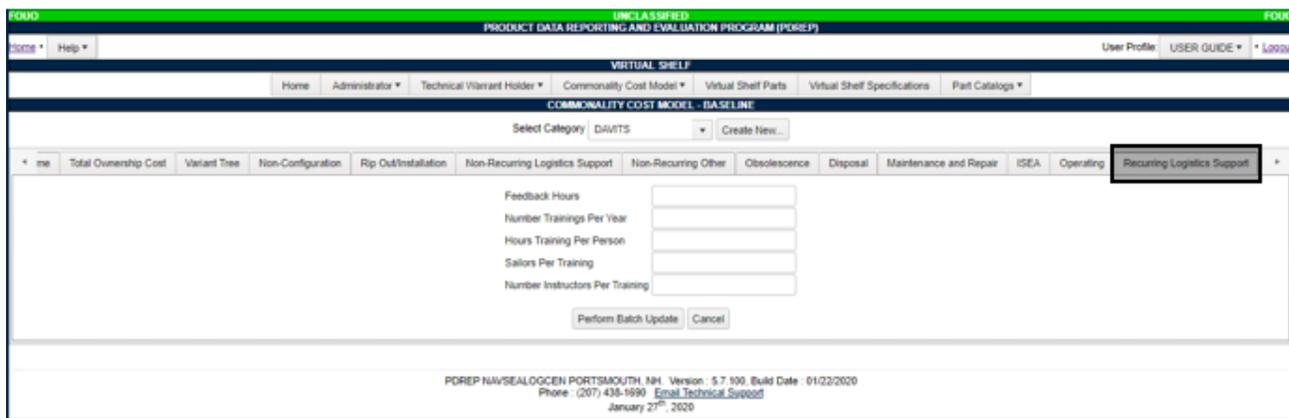


Figure 6.22

14. **Recurring Other:** The Recurring Other tab (See **Figure 6.23**) contains the cost information related to the recurring costs for each configuration that do not fall into any of the other cost categories. The grid displays each configuration in the baseline and will allow the other cost data to be entered for each configuration.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

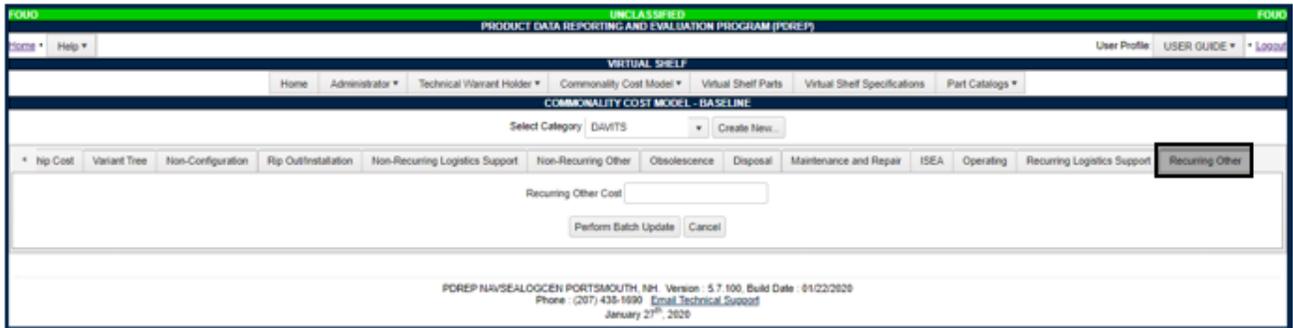


Figure 6.23

B. ANALYSIS

1. **Analysis Main Grid View:** On the analysis home page, grids are viewed first by selecting a category from the dropdown list. If the user needs to create a new category, left-clicking the 'Create New...' button will initiate a pop-up (See **Figure 6.24**) that gives the user the ability to create a new analysis based on TOCs that were calculated in the baseline. The 'Analysis Name' and 'Baseline' fields are both required to create an analysis. The 'Analysis Name' field must be unique, and the 'Baseline' field consists of a drop-down list of baseline categories that exist in the database.

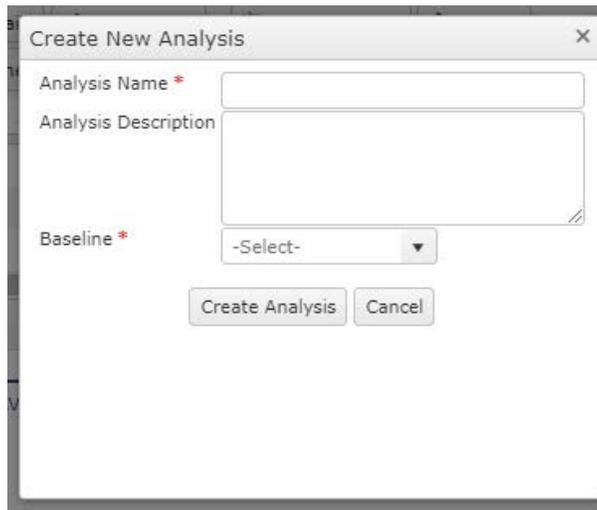


Figure 6.24

The main grid view comes up after an analysis has been selected from the dropdown list. The grid (See **Figure 6.25**) represents each configuration present in the category and the APL or NIIN that fits in that configuration. The 'Current' fields represent the data that has been pulled out of the baseline, and the 'Alternate' fields represent items that have been selected as a replacement for those items. All financial data contained in this grid is pulled from Total Ownership Costs that were calculated in the 'Baseline' portion of the deep dive. The majority of the fields in this grid are read-only, with the exceptions being the fields titled 'Ship Hull,' 'Quantity,' 'Alternate APL/NIIN,' 'Implementation Year,' and 'Decommission Year.' The user also has the option to delete individual configurations by clicking on the 'x' in the first column. All the subsections described are accessible from the top of this main grid view. When the user left-clicks any of the corresponding buttons, a new window pops up. This grid utilizes batch editing.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

Select Analysis									
Analysis Test 2 ▼ Create New...									
+ Add New Configuration Save Changes Edit Analysis Details Edit APL List Clear All Filters Refresh Charts VS Transfer									
	Ship Hull	Quantity	Current APL	Current Nomenclature	Current Yearly Cost	Alternate APL	Alternate Nomenclat...	Alternate Yearly Cost	Alternate One Time ...
	AGF 3	1	2		\$36.00	1		\$13.46	\$9.28 [^]
	AGF 3	1	1		\$13.00	1		\$13.46	\$9.28
	AO 177	1	2		\$36.00	1		\$13.46	\$9.28
	AO 177	1	2		\$36.00	1		\$13.46	\$9.28
	AO 177	25	1		\$13.00	1		\$13.46	\$9.28
	AO 178	2	2		\$36.00	1		\$13.46	\$9.28

Figure 6.25

- Add Configuration Window:** The Add Configuration Window (See **Figure 6.26**) provides the functionality to allow a new configuration to be added to an analysis. A new configuration is the combination of a ship hull and a part/system. It will also capture additional information such as quantity, implementation year and decommission year. By utilizing this functionality, the analysis can include configurations that were not present in the original baseline data. This improves the flexibility of the system by preventing an analysis from being limited only to baseline configurations.

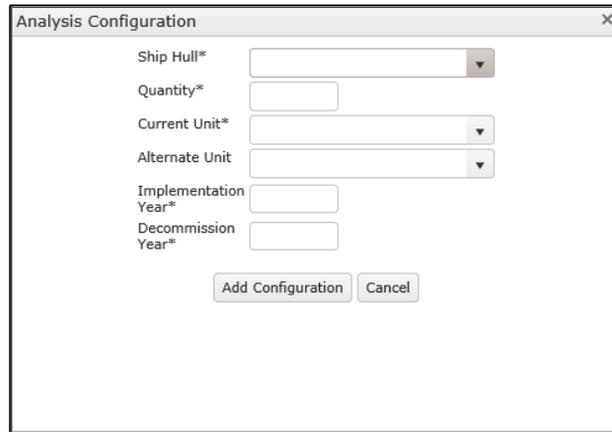


Figure 6.26

3. **Edit Analysis Details Window:** The Edit Analysis Details Window (See **Figure 6.27**) provides the functionality required to edit the metadata for an analysis. The metadata includes information such as the analysis name, a description of the analysis, the analysis type (part or system based) and the projected life of the parts/systems included in the analysis.

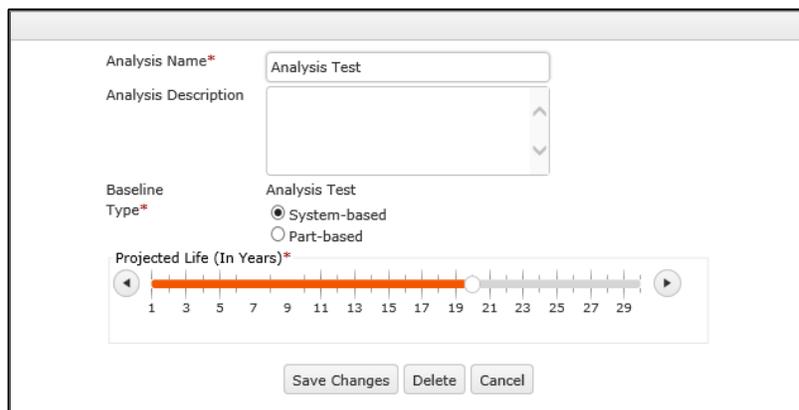


Figure 6.27

4. **Edit APL List Grid:** The Edit APL/NIIN List Grid (See **Figure 6.28**) provides functionality that allow for the addition of new parts/systems, editing of parts/systems and removal of parts/systems from an analysis. By utilizing this functionality, the analysis can include parts/systems that were not present in the original baseline data. This improves the flexibility of the system by preventing an analysis from being limited only to baseline parts/systems. Parts/Systems that were included in the baseline data can also be edited to adjust their cost data if needed.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

	APL	Nomenclature	One Time Cost	Recurring Cost
	ADD HERE		\$0.00	\$0.00
	1		\$9.20	\$13.00
	2		\$12.00	\$16.50

Figure 6.28

- Break Even Chart:** The break-even chart is accessed by left clicking a button in the controls in the analysis grid (See **Figure 6.29**).

Ship Hull	Quantity	Current APL	Current Nomenclature	Current Yearly Cost	Alternate APL	Alternate Nomenclature	Alternate Yearly Cost	Commission Year	Decommission Year
AGF 3	1	1		\$13.00	1		\$13.46		
AO 177	1	2		\$36.00	1		\$13.46	\$9.28	2017
AO 177	25	1		\$13.00	1		\$13.46	\$9.28	\$13.00
AO 178	2	2		\$36.00	1		\$13.46	\$9.28	\$13.00
AO 179	1	2		\$36.00	1		\$14.16	\$9.28	\$13.00
DDG 60	20	1		\$13.00	1		\$13.49	\$9.28	\$13.00
DDG 76	45	2		\$36.00	1		\$13.46	\$9.28	\$13.00

Figure 6.29

To generate a chart, the user must select an option from the dropdown list to the right of the text that reads 'Filter Data By.' Users have the option of selecting 'Hull,' 'Class,' or 'Fleet' (See **Figure 6.30**).

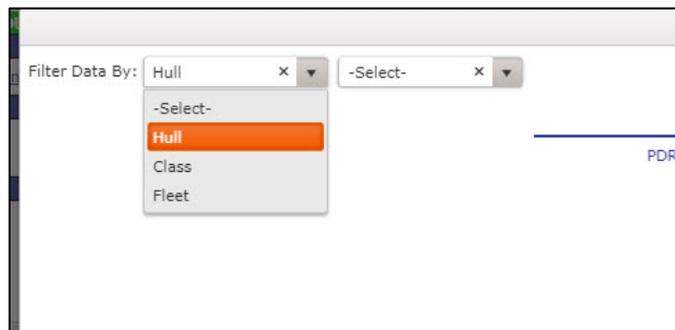


Figure 6.30

If the user selects 'Fleet,' a break-even line chart will be generated in the space below that represents cost data for the entire fleet in that category. If the user selects either 'Hull' or 'Class,' then a new dropdown box will appear to the right of the first dropdown box and the user will need to refine the filter again to create a chart. The list generated in this dropdown box represents all the hulls or classes that are present in this category. This gives the user the option to view break-even cost data as it relates to specific classes or hulls.

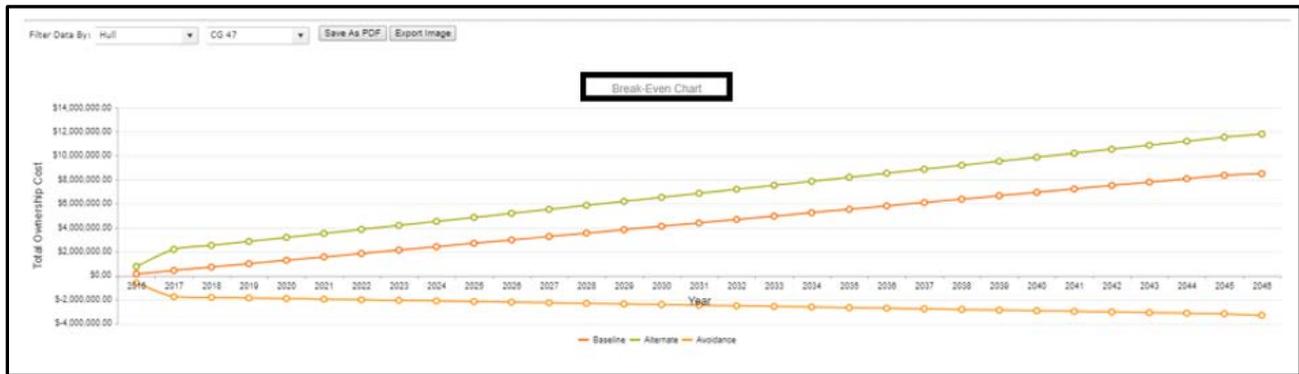


Figure 6.31

The break-even chart (See **Figure 6.31**) will automatically generate in the space below the controls once the appropriate filters are selected. The y-axis represents the total ownership cost and the x-axis represents the active years that are relevant for that category.

The years listed on the x-axis are determined by the earliest implementation year and the latest decommission year (See **Figure 6.32**) in the population of parts/systems for the category.

FOOD UNCLASSIFIED FOOD
PRODUCT DATA REPORTING AND EVALUATION PROGRAM (POREP)

Home Administrator Technical Warrant Holder Commonality Cost Model Virtual Shelf Parts Virtual Shelf Specifications Part Catalogs

COMMUNALITY COST MODEL - ANALYSIS
Selected Analysis: Davis Test Create New...

Charts VS Transfer

Ship Hull	Quantity	Current NIN	Current Nomenclature	Current Yearly Cost	Alternate NIN	Alternate Nomenclature	Alternate Yearly Cost	Alternate One Tim...	Alternate Recurr...	Implementation Year	Decommission Y...
AGF 3	3	57A040002		\$139,429.76	541111111A		\$115,432.00	\$750,000.00	\$65,432.00	2019	2034
AGF 3	2	L560270057		\$579,985.97	57A040002		\$197,936.99	\$877,600.44	\$139,429.76	2019	2034
AGF 3	1	568880041		\$80,962.52						2017	2047
AO 177	1	560270069		\$312,153.21	560270051		\$100,459.44	\$835,649.05	\$138,676.96	2017	2047
AO 178	1	560270069		\$312,153.21	560270051		\$100,459.44	\$835,649.05	\$138,676.96	2017	2047
AO 179	1	560270069		\$312,153.21	560270051		\$100,459.44	\$835,649.05	\$138,676.96	2017	2047
AO 180	1	560270069		\$312,153.21	560270051		\$100,459.44	\$835,649.05	\$138,676.96	2017	2047
AO 186	1	560270069		\$312,153.21	560270051		\$100,459.44	\$835,649.05	\$138,676.96	2017	2047
AOE 1	1	568880041		\$80,962.52	56A070003		\$104,714.12	\$692,165.47	\$70,105.85	2017	2047
AOE 2	2	568880041		\$80,962.52	56A070003		\$104,714.12	\$692,165.47	\$70,105.85	2017	2047
AOE 3	2	568880041		\$80,962.52	L560270057		\$630,502.11	\$1,012,722.67	\$579,985.97	2017	2047
AOE 4	2	568880041		\$80,962.52	56A090001		\$317,912.74	\$1,527,195.33	\$241,552.97	2017	2047
CG 47	1	56A000002		\$144,799.18	56A070003		\$104,714.12	\$692,165.47	\$70,105.85	2016	2046

Figure 6.32

The graph calculates TOCs related to three series: 'Baseline' (blue), 'Alternate' (red), and 'Avoidance' (green). The series are listed in the bottom center of the window, just under the graph. Hovering over a series label highlights the series (See **Figure 6.33**).

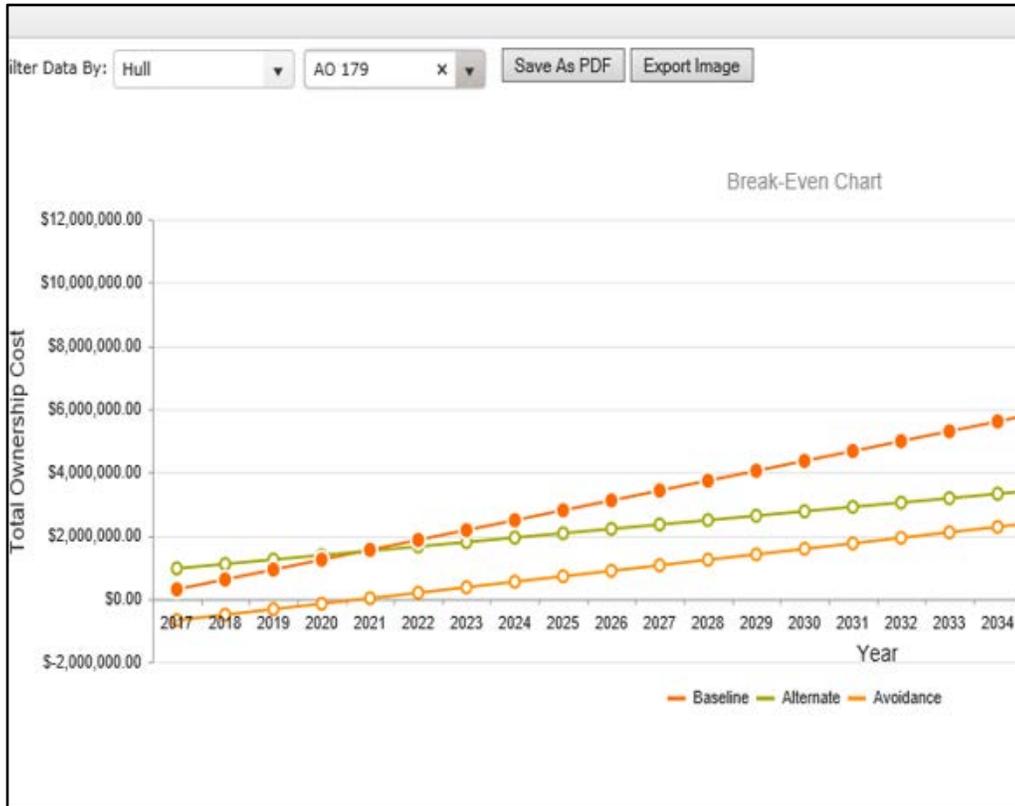


Figure 6.33

Left clicking on the series name will remove that series from the graph entirely. Left clicking the series name again will display the series once more.

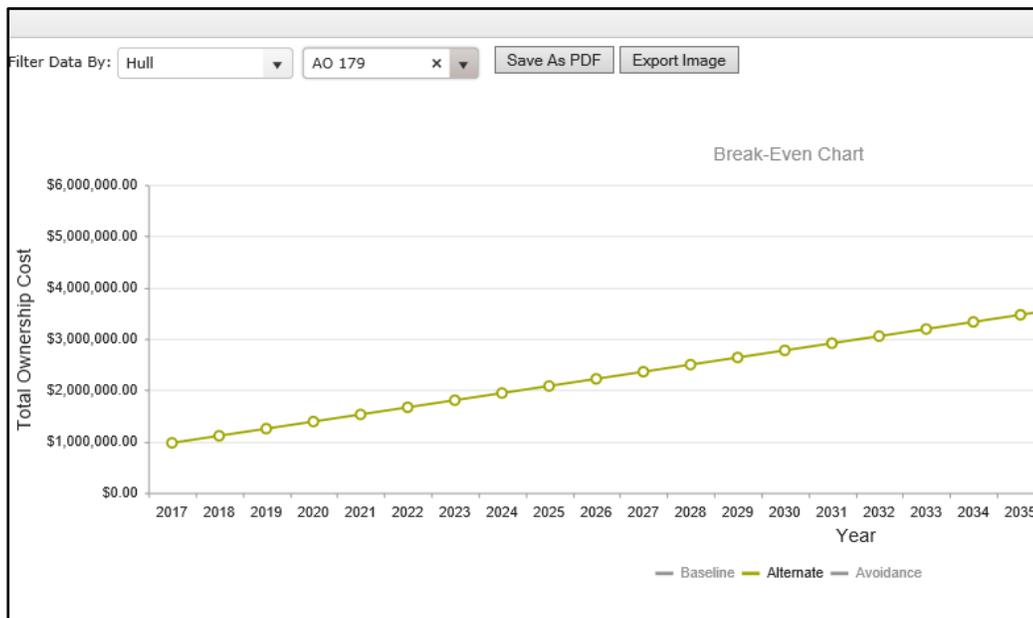


Figure 6.34

Hovering the mouse over a shape in any of the lines will display the cumulative TOC for that series on that year.

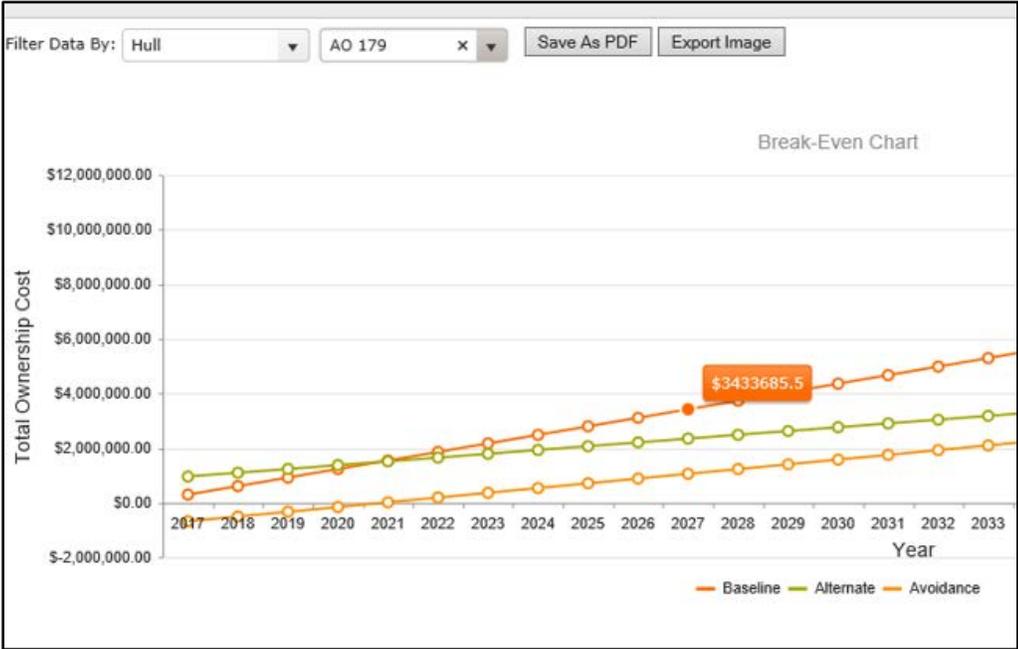


Figure 6.35

Baseline costs are typically lower than alternate costs at the outset because the baseline only takes into account annual recurring costs. Whenever an alternate is chosen as a replacement for what already exists on the baseline, the item will incur a one-time acquisition cost on its implementation year along with its yearly recurring cost.

The avoidance series shows the user how many years need to pass to see savings given the configurations set up in the analysis. . In **Figure 6.36**, savings are no longer realized after June 2020 Hull AO 179.

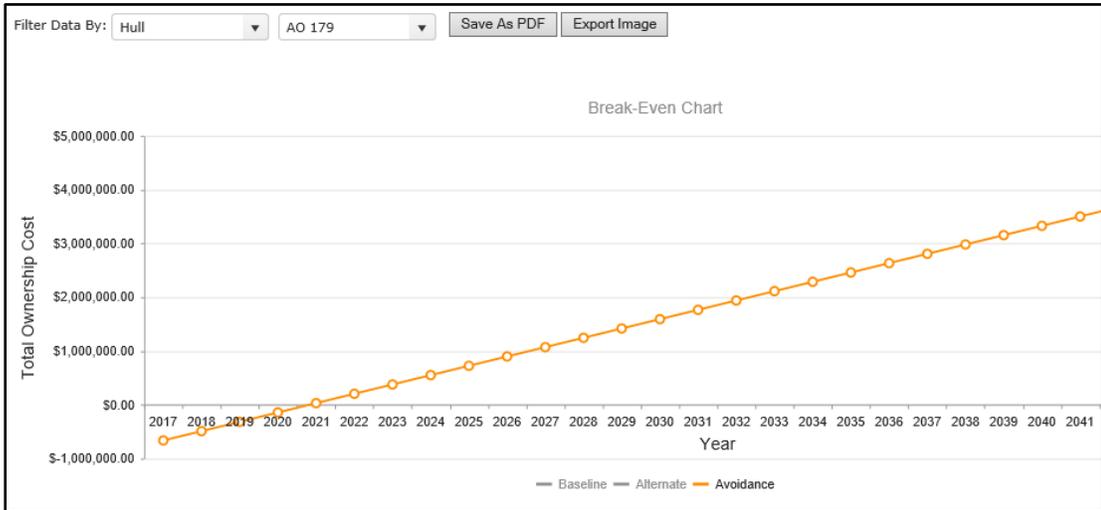


Figure 6.36

Left clicking on the 'Export Image' or 'Export PDF' buttons at the top will download an image or a PDF of the chart. If no chart is being displayed, clicking these buttons will do nothing.

- Cost Comparison Chart:** The cost comparison chart (See **Figure 6.37**) is accessed by left clicking a button in the controls in the analysis grid (See **Figure 6.29**). To generate a chart, the user must select an option from the dropdown list to the right of the text that reads 'Filter Data By'.



Figure 6.37

Users have the option of selecting 'Unit,' 'Hull,' 'Class,' or 'Fleet' (See **Figure 6.37**). If the user selects 'Fleet,' a cost comparison chart will be generated in the space below that represents cost data for the entire fleet in that category.

When 'Unit' is selected, the user gets a simple view of the APLs or NIINs that exist in the analysis with a cost breakdown (See **Figure 6.38**).

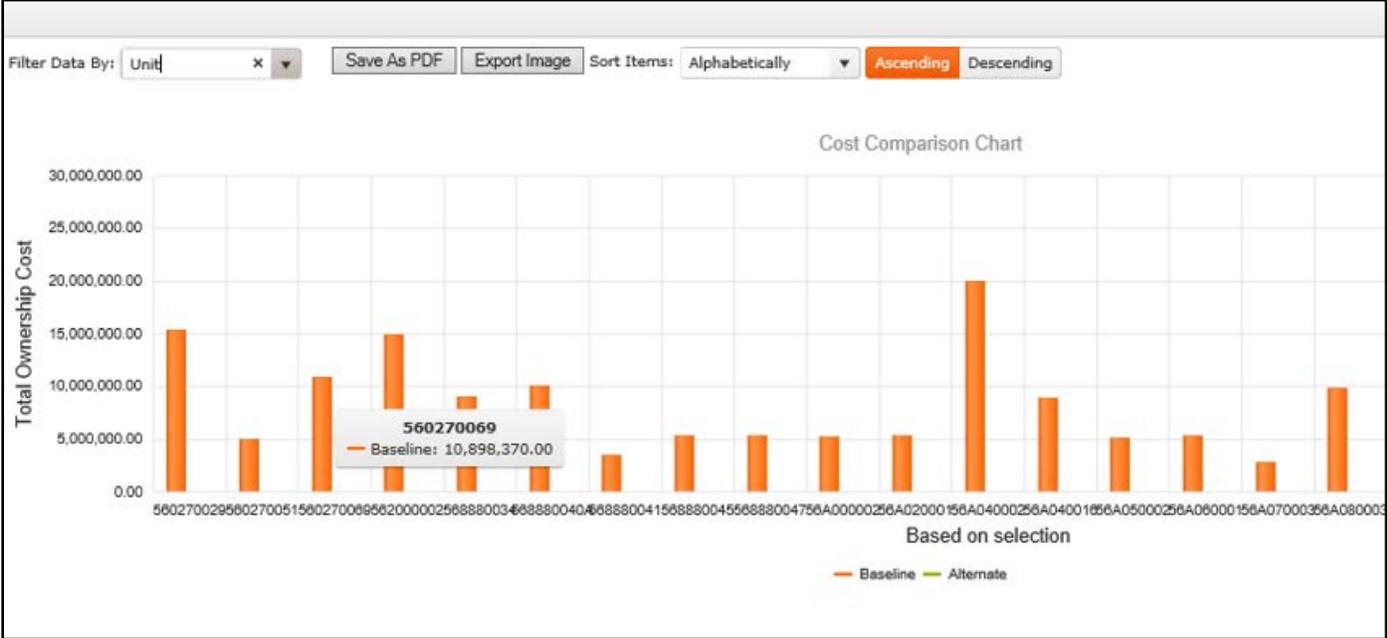


Figure 6.38

If the user selects either 'Hull' or 'Class,' then a new dropdown box will appear to the right of the first dropdown box and the user will need to refine the filter again to create a chart. The list generated in this dropdown box represents all the hulls or classes that are present in this category. This gives the user the option to view cost comparison TOC data as it relates to specific classes or hulls (See **Figure 6.39**).



Figure 6.39

In the top right corner is a dropdown box that gives users the ability to select how to sort the items once a chart is generated (See **Figure 6.40**). The options are 'Alphabetically,' 'Savings,' 'Baseline,' and 'Alternate'.

Sorting items by 'Savings' looks at a comparison of the baseline and the alternate TOCs for each entry and organizes the information based on the potential for savings.

The 'Baseline' and 'Alternate' options sorts based on the numerical value of their respective series, and 'Alphabetically' looks at the name of the entry (hull or class) and sorts alphabetically that way. The checkbox all the way to the right determines whether the items in the graph will be sorted in ascending or descending order. 'Ascending' is always checked by default but left clicking this button will sort everything in descending order. When any of these controls are altered, the window automatically generates the graph again with the desired effect. The cost comparison chart will automatically generate in the space below the controls once the appropriate filters are selected. The y-axis represents the total ownership cost and the x-axis represents either an individual hull or a class for that category, depending on which option the user chose. Units are only represented on the x-axis when 'Units' was chosen, and likewise classes are only represented when 'Class' was chosen. Otherwise, each item will be labeled with a hull name. The graph calculates TOCs related to two series: 'Baseline' (blue), and 'Alternate' (red).

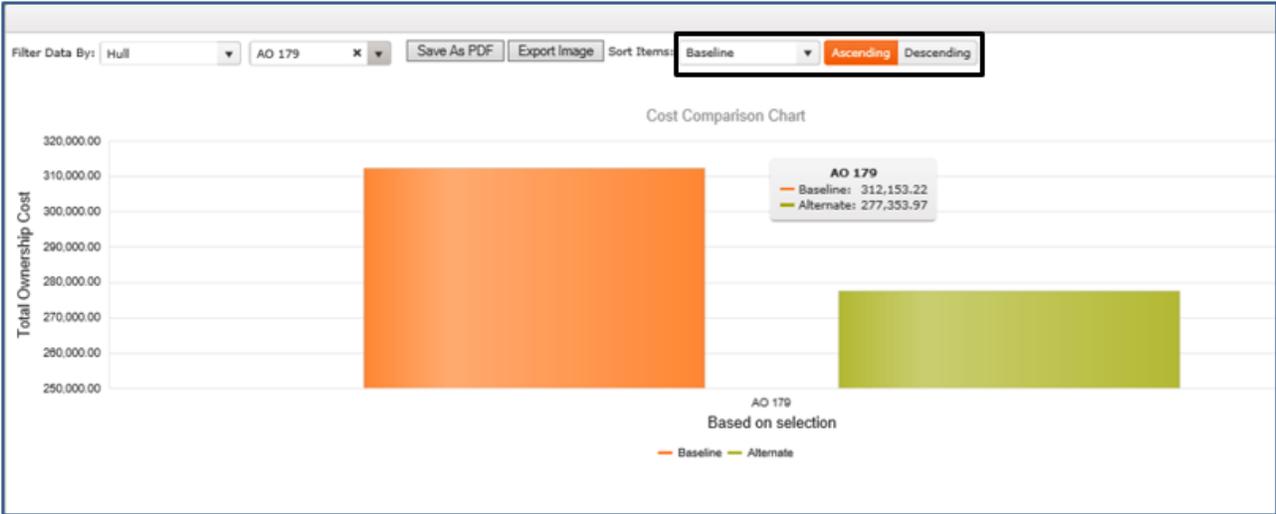


Figure 6.40

The series are listed in the bottom center of the window, just under the graph. Hovering over a series label highlights the series in the graph, and left clicking on the series name will remove that series from the graph entirely. Left clicking the series name again will display the series once more (See **Figure 6.40**). Hovering the mouse over a bar will display the TOC for that series and entry. The baseline series only retrieves the recurring cost for all the

configuration's active years and calculates the TOCs based on this data. The alternate series does the same, except it also takes into account one-time acquisition costs for every item that is selected to replace an existing configuration on the baseline.

Left clicking on the 'Export Image' or 'Export PDF' buttons will download an image or a PDF of the chart. If no chart is being displayed, clicking these buttons will do nothing.

- 7. **Configuration Clusters Bubble Chart:** The configuration clusters bubble chart (See **Figure 6.41**) is accessed by left clicking a button in the controls in the analysis grid. To generate a chart, the user must select an option from the dropdown list (See **Figure 6.29**) to the right of the text that reads 'Filter Data By.' Users have the option of selecting 'Hull,' 'Class,' or 'Fleet.' If the user selects 'Fleet,' a bubble chart will be generated in the space below that depicts the configuration clusters for the entire fleet in that category.

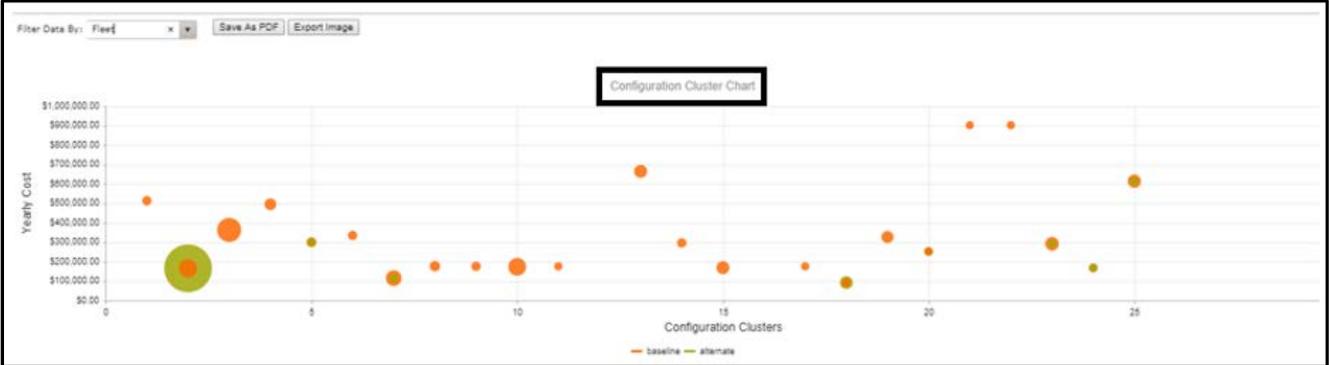


Figure 6.41

If the user selects either 'Hull' or 'Class,' then a new dropdown box will appear to the right of the first dropdown box and the user will need to refine the filter again to create a chart. The list generated in this dropdown box represents all the hulls or classes that are present in this category. This gives the user the option to view configuration clusters as they relate to specific classes or hulls (See **Figure 6.42**).



Figure 6.42

The requirements for being able to use a variant tree attribute in this context are somewhat stringent. Guidelines for utilizing this analysis feature are:

- i. Analysis is dependent on the user having included a unit id (APL or NIIN column) when the variant tree was uploaded in Virtual Shelf.
- ii. The values in the attribute must consist strictly of numerical values; these values determine the y-axis within the Configuration Cluster.
- iii. Multiple unit ID's with inconsistent data will be disregarded in the Configuration Cluster analysis; systematically there is no discernable way for the VS to differentiate.

The configuration clusters bubble chart will automatically generate in the space below the controls once the appropriate filters are selected. The x-axis represents individual unit ids, identified by a unique nominal integer generated dynamically; and the y-axis value is 'Yearly Cost'. The graph renders the clusters (See **Figure 6.43**) as they relate to two series: 'Baseline' (orange) and 'Alternate' (green).

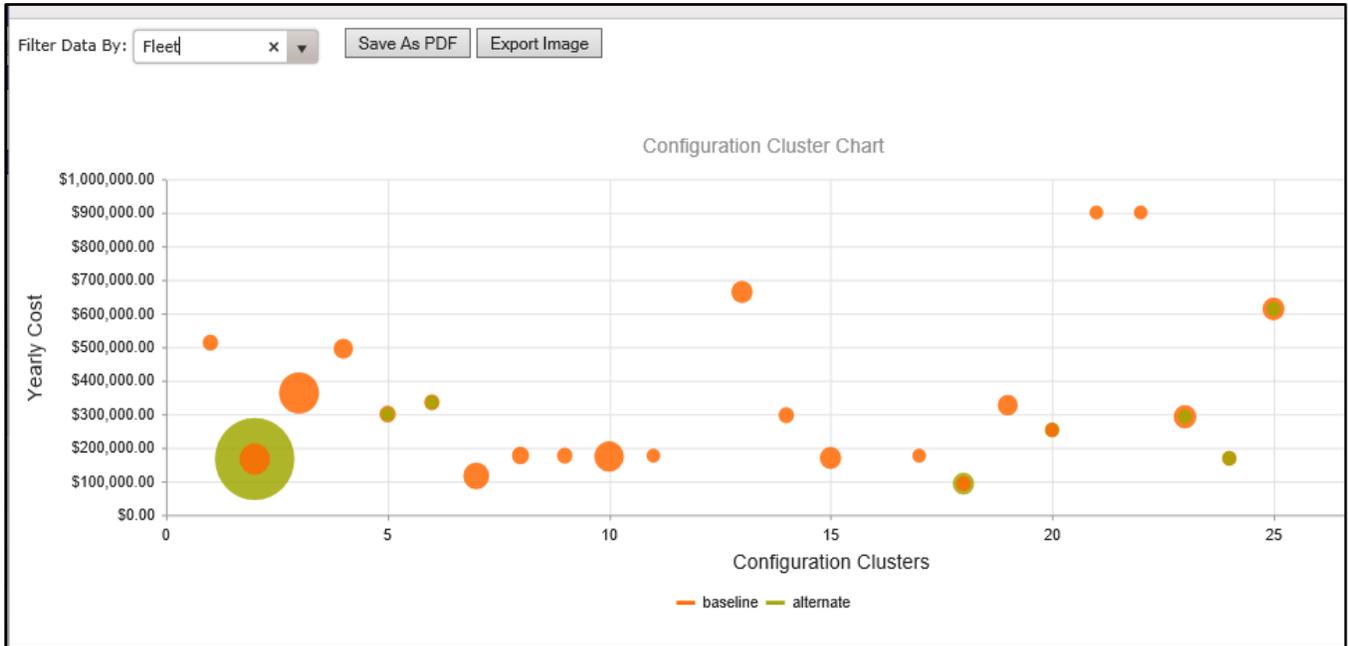


Figure 6.43

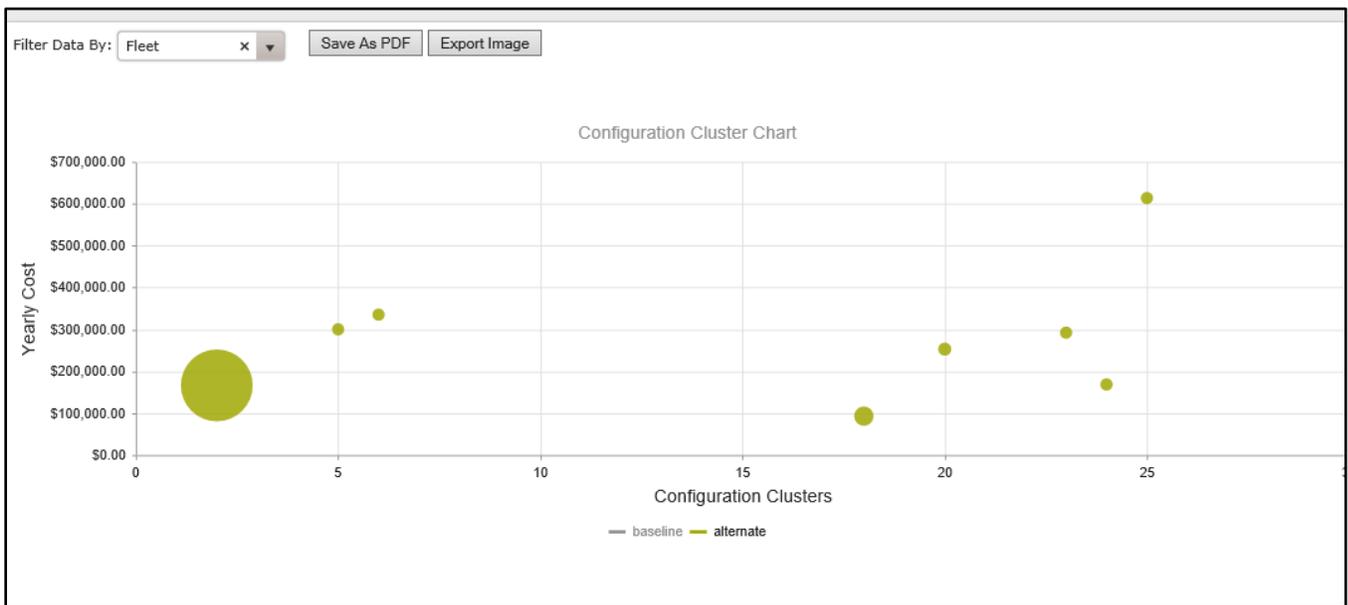


Figure 6.44

Hovering over a series label highlights the series in the graph, and left clicking on the series name will remove that series from the graph entirely (See **Figure 6.44** and **Figure 6.45**). Left clicking the series name again will display the series once more.

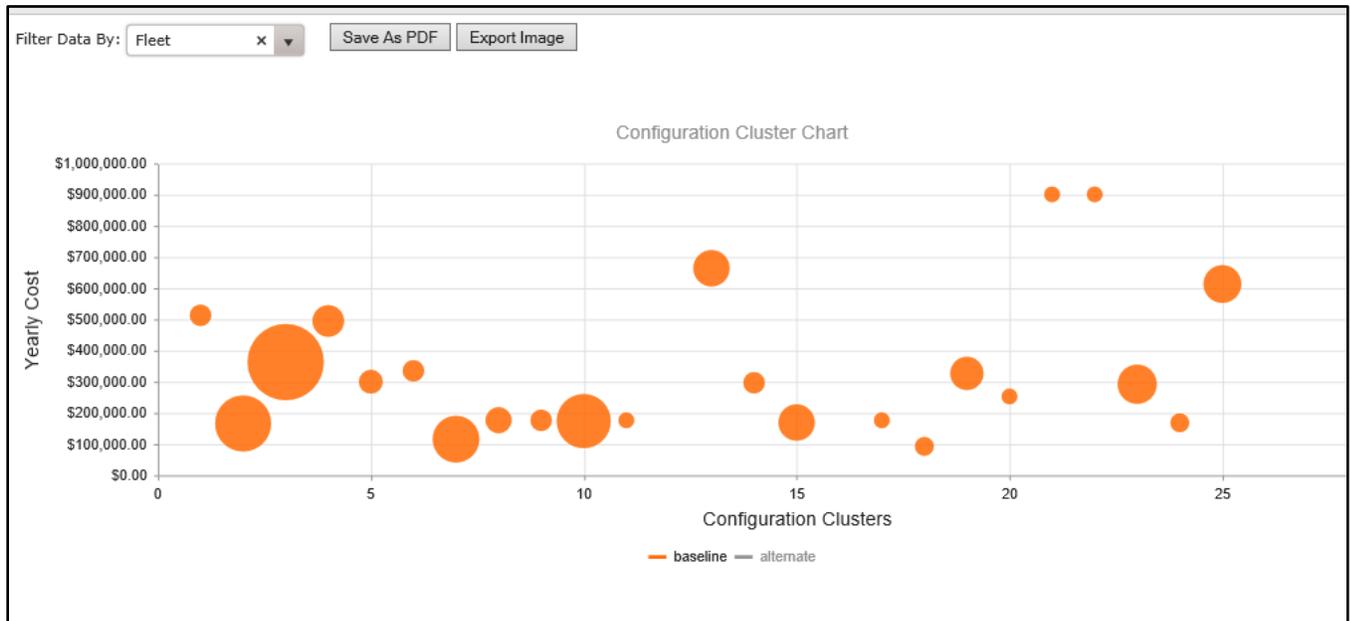


Figure 6.45

Hovering the mouse over a bubble will display the information for that entry. This includes the unit id, the y-axis value, the number of configurations, and the source (baseline or alternate). The number of configurations is visually represented by the size of each bubble, but to get an exact number the user must hover over the item in question.

Left clicking on the 'Export Image' or 'Export PDF' buttons will download an image or a PDF of the chart. If no chart is being displayed, clicking these buttons will do nothing.

6.2 VIRTUAL SHELF PARTS

Use the drop down to select a category of parts to review (See **Figure 6.46**).



Figure 6.46

All Virtual Shelf part data can be viewed, edited, added, and removed using this grid. The user can search the Virtual Shelf parts and initiate feedback reports from a category or a specific part from this page by clicking on the 'Feedback Report' link associated with each part entry (See **Figure 6.47**). Each Virtual Shelf part record will also indicate if the part is listed in the SPC and provides a link to view that SPC data where matches exist. The Virtual Shelf system administrator has the ability to designate which Virtual Shelf part records will be 'published' by editing the 'Published' field. The virtual shelf parts grid requires rows to be edited individually.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

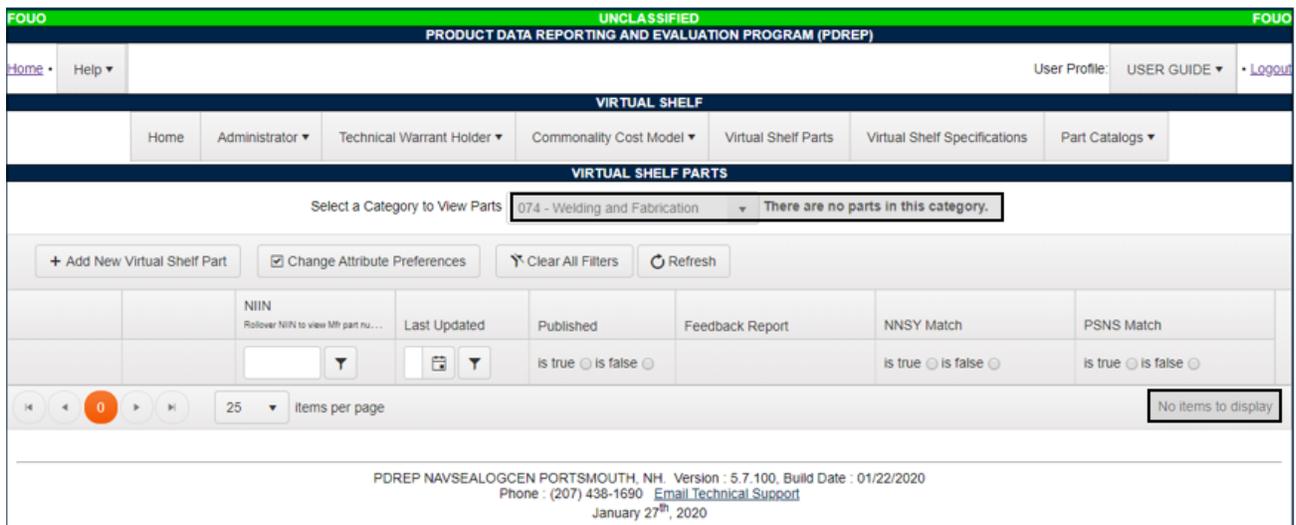


Figure 6.47

6.3 VIRTUAL SHELF SPECIFICATIONS

Specification Data capabilities allow for the storage and retrieval of Deep Dive artifacts for a specification-based Deep Dive (See **Figure 6.48**). This content is stored under a standard Category 'classification' and allows the user to add descriptive entries for each file stored. The system allows the user to enter a value for Specifications impacted (See **Figure 6.49**, **Figure 6.50** and **Figure 6.51**). This value, if found to match a specification value in any part listing will allow the user to link to the specification documents stored on the virtual shelf.

The system presents a link to [ASSIST](#) which is an online repository of specifications that may be used as reference material for any stored information.

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 PRODUCT DATA REPORTING AND EVALUATION PROGRAM (PDREP)

Home Help User Profile: USER GUIDE Logout

VIRTUAL SHELF

Home Administrator Technical Warrant Holder Commonality Cost Model Virtual Shelf Parts Virtual Shelf Specifications Part Catalogs

VIRTUAL SHELF SPECIFICATIONS

Select a Category to View Specifications -Select-

For more information on specifications, visit <https://assist.dla.mil>.

PDREP NAVSEALOGCEN PORTSMOUTH, NH. Version : 5.7.100, Build Date : 01/22/2020
 Phone : (207) 438-1690 Email: [Technical Support](#)
 January 27th, 2020

Figure 6.48

FOUO UNCLASSIFIED FOUO
 PRODUCT DATA REPORTING AND EVALUATION PROGRAM (PDREP)

Home Help User Profile: USER GUIDE Logout

VIRTUAL SHELF

Home Administrator Technical Warrant Holder Commonality Cost Model Virtual Shelf Parts Virtual Shelf Specifications Part Catalogs

VIRTUAL SHELF SPECIFICATIONS

Select a Category to View Specifications 075 - Fasteners (Close Toler...)

For more information on specifications, visit <https://assist.dla.mil>.

[Initiate Feedback Report](#)

Specification Documents Specifications

+ Add New Document Refresh Document Name (Click to View)

+ Add New Specification Refresh

Specifications	Description	Spec Drawing Links (Click to View)	Related Links (Click to View)
No items to display			

25 items per page

PDREP NAVSEALOGCEN PORTSMOUTH, NH. Version : 5.7.100, Build Date : 01/22/2020
 Phone : (207) 438-1690 Email: [Technical Support](#)
 January 27th, 2020

Figure 6.49

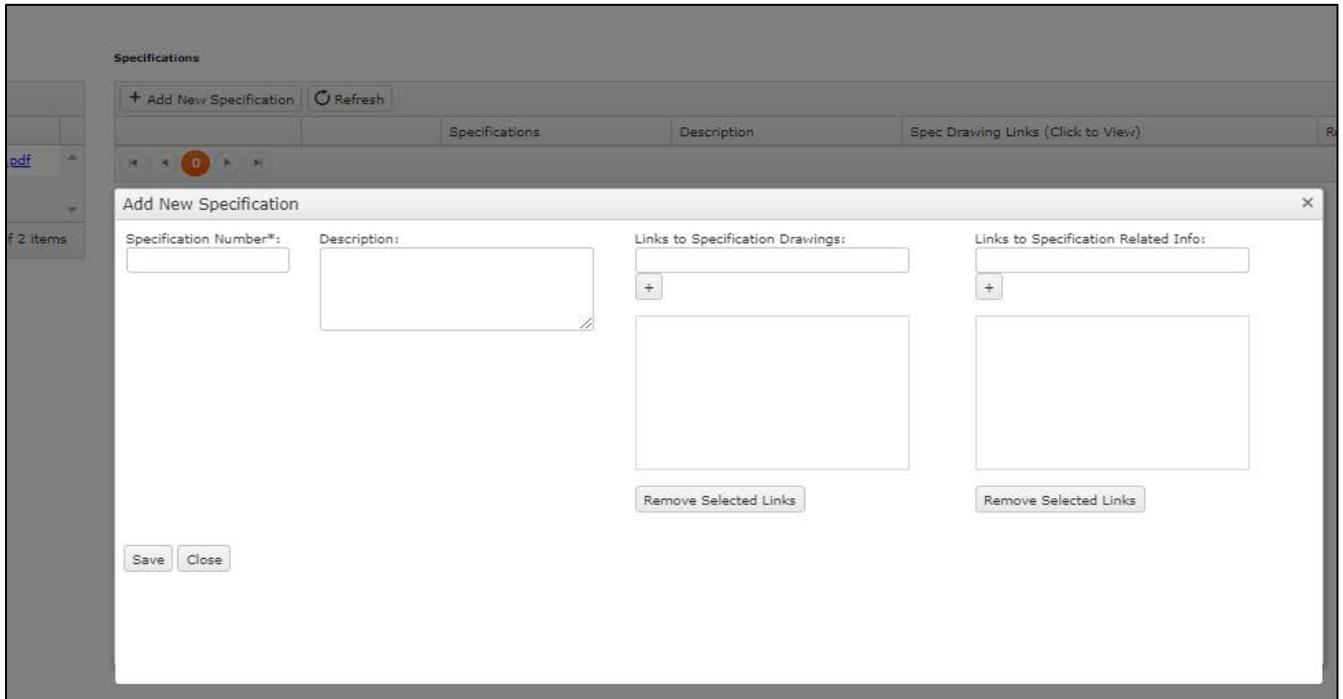


Figure 6.50

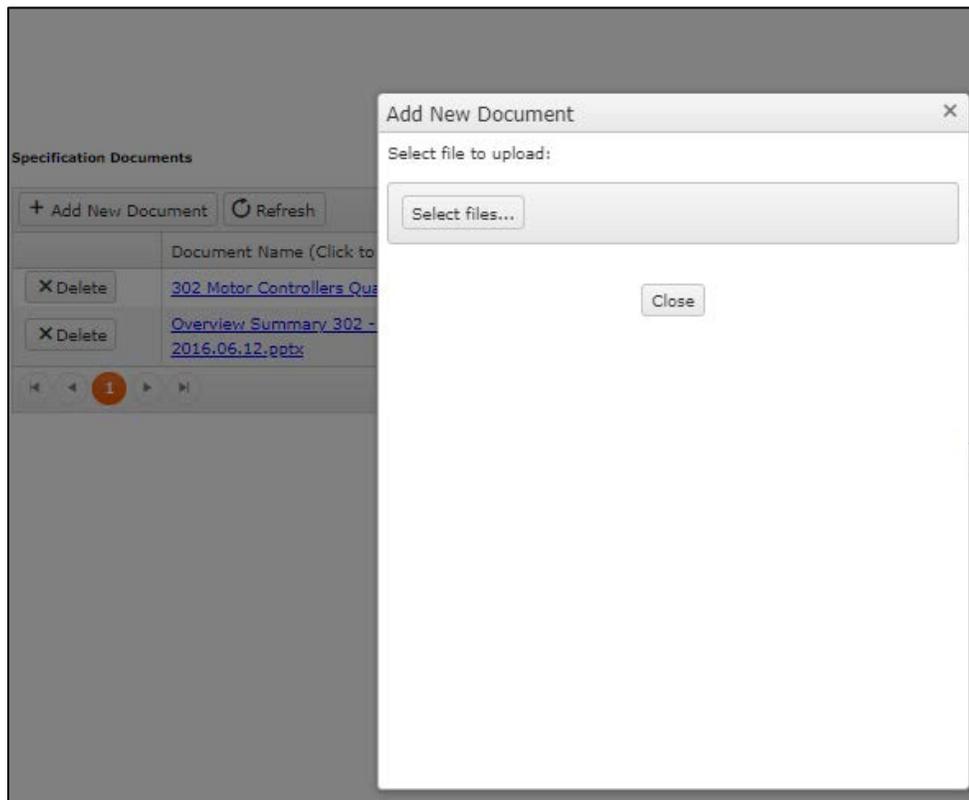


Figure 6.51

6.4 PARTS CATALOG

- A. Norfolk Naval Shipyard (NNSY):** The NNSY part catalog is represented by a read-only grid (See **Figure 6.52**). The data in this grid comes from the import process described in [Section 3.2](#). There are two columns in the grid that provide a unique filtering feature; they are labeled 'VS Part Match' and 'VS Spec Match.' Both columns, respectively, give the user the ability to filter the grid based on where 'part' or 'spec' matches exist or do not exist on the Virtual Shelf. The filters provide the user with insight on where there is overlap on the Virtual Shelf and the NNSY part catalog.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

VS Part Match	VS Spec Match	ID	BR_ID	MTL_NO	MTL_CAT	NOUN_NM_CD	NNM_CD	SZ_CD
<input type="checkbox"/>	<input type="checkbox"/>	133	MCHRY	700369	VENT	AIC	SC-	030000
<input type="checkbox"/>	<input type="checkbox"/>	134	MCHRY	700368	VENT	AIC	SC-	050000
<input type="checkbox"/>	<input type="checkbox"/>	135	MCHRY	700367	VENT	AIC	SC-	070005
<input type="checkbox"/>	<input type="checkbox"/>	136	MCHRY	401530	FILTR_AIR	AIF		310000
<input type="checkbox"/>	<input type="checkbox"/>	137	MCHRY	401524	FILTR_AIR	AIF		311000
<input type="checkbox"/>	<input type="checkbox"/>	138	MCHRY	401525	FILTR_AIR	AIF		312000

Figure 6.52

- B. Puget Sound Naval Shipyard (PSNS):** The PSNS part catalog is represented by a read-only grid (See **Figure 6.53**). The data in this grid comes from the import process described in [Section 3.2](#). There are two columns in the grid that provide a unique filtering feature; they are labeled 'VS Part Match' and 'VS Spec Match.' Both columns, respectively, give the user the ability to filter the grid based on where 'part' or 'spec' matches exist or do not exist on the Virtual Shelf. The filters provide the user with insight on where there is overlap on the Virtual Shelf and the PSNS part catalog.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

VS Part Match		VS Spec Match		STD_INDEX	NOMEN	NSN	DESCR1	DESCR2	REQ1	REQ2
<input type="radio"/> is true	<input type="radio"/> is false	<input type="radio"/> is true	<input type="radio"/> is false							
<input type="checkbox"/>	<input type="checkbox"/>	120-0235TRL	INJ			002738700	ADHESIVE		LATEX	
<input type="checkbox"/>	<input type="checkbox"/>	100-0015TRL	PAI			012851329	PAINT, ZINC MOLYBDATE	FORMULA 84 (PRIMER)		
<input type="checkbox"/>	<input type="checkbox"/>	100-0105TRL	PAI				PAINT, EPOXY-POLYAMIDE	FORMULA 150		
<input type="checkbox"/>	<input type="checkbox"/>	100-0115TRL	PAI				PAINT, EPOXY-POLYAMIDE	FORMULA 151		
<input type="checkbox"/>	<input type="checkbox"/>	100-0205TRL	PAI			013445089	ENAMEL, CHLORINATED-ALKYD RESIN	FORMULA 124, SOFT WHITE		
<input type="checkbox"/>	<input type="checkbox"/>	100-0325TRL	PAI			013562941	ENAMEL, SILICONE ALKYD COPOLYMER	GRAY DECK, COLOR #26231		
<input type="checkbox"/>	<input type="checkbox"/>	100-0335TRL	PAI			013562938	ENAMEL, SILICONE ALKYD COPOLYMER	DULL BLACK COLOR #37038		
<input type="checkbox"/>	<input type="checkbox"/>	100-0405TRL	PAI			013445320	ENAMEL, SILICONE ALKYD COPOLYMER	BLACK DECK COLOR #27030		
<input type="checkbox"/>	<input type="checkbox"/>	100-0435TRL	PAI				ENAMEL, SILICONE ALKYD COPOLYMER	HAZE GRAY, COLOR #06270		

Figure 6.53

7 VIRTUAL SHELF ADMINISTRATOR ACCESS

7.1 ADMINISTRATOR TAB

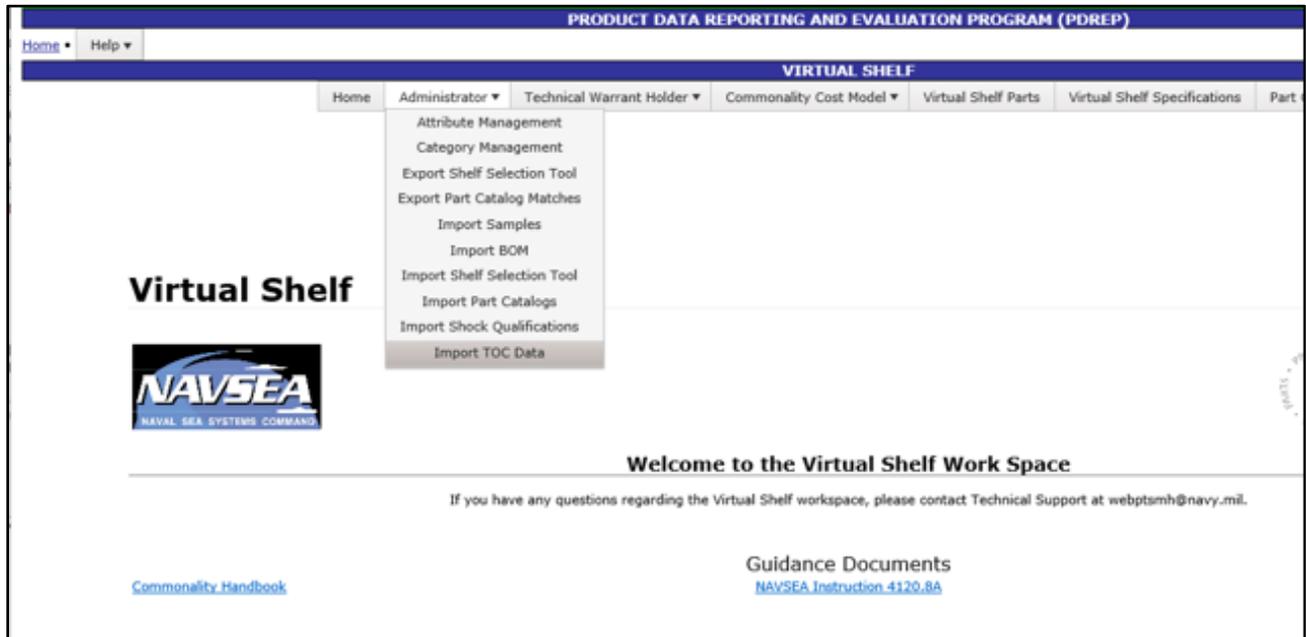


Figure 7.1

- A. **Attribute Management:** The attribute management functionality allows the administrator to define, describe, edit and delete attribute fields used to store Virtual Shelf data (See **Figure 7.2**). The attribute management grid requires rows to be edited individually. These attributes are included in the upload of the shelf selection tool. The occasional misspelling or incorrectly placed attribute is able to be modified with this capability. Deletion of an attribute in the Attribute Management tab removes it completely from the Virtual Shelf; however, it can be added back in with the re-upload of that specific parts shelf selection.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

ATTRIBUTE MANAGEMENT		
Select a Category to View Attributes 438 - Ship Controls		
+ Add New Attribute	Clear All Filters	Refresh
	Attribute Name ↑	Attribute Description
	<input type="text"/>	<input type="text"/>
<input type="button" value="Edit"/>	APL	
<input type="button" value="Delete"/>		
<input type="button" value="Edit"/>	Comments	
<input type="button" value="Delete"/>		

Figure 7.2

The category management functionality allows the administrator to define, describe, edit and delete parts categories within the Virtual Shelf (See **Figure 7.3**). The category management grid requires rows to be edited individually. These are the same categories that are loaded into Virtual shelf thru the Shelf Selection tool. The occasional misspelling or incorrectly placed category name / description is able to be modified with this capability. Deletion of a category here in this tab removes it completely from the Virtual Shelf; however, it can be added back in with the re-upload of that specific parts shelf selection.

VIRTUAL SHELF					
Home	Administrator ▼	Technical Warrant Holder ▼	Commonality Cost Model ▼	Virtual Shelf Parts	Virtual Shelf
CATEGORY MANAGEMENT					
+ Add New Category		Clear All Filters			
		Category Name		Category Description	
		<input type="text"/>		<input type="text"/>	
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	075 - Fasteners (Bolt (Other))			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	075 - Fasteners (Cap Screws)			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	075 - Fasteners (Close Tolerance Screws)			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	075 - Fasteners (Hex Nuts)			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	075 - Fasteners (Lock Nuts)			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	075 - Fasteners (Machine Bolt)			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	075 - Fasteners (Machine Screws)			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	075 - Fasteners (Non Metallic Grommets)			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	075 - Fasteners (Nuts (Non Nuts))			

Figure 7.3

B. **Import BOM:** Please refer to [Section 3.2.A](#) for a description of this functionality.

- C. **Import Shelf Selection Tool:** Please refer to [Section 3.2 B](#) for a description of this functionality.
- D. **Import Parts Catalogs:** Please refer to [Section 3.2.C](#) for a description of this functionality.
- E. **Feedback Attribute Management:** The Feedback Attribute Management functionality provides a mechanism to include specific Virtual Shelf part attributes on the Feedback Report form. When a Feedback Report is submitted, information provided by the submitter is captured and later made available to the reviewer. One of the sections on a Feedback Report form is the Virtual Shelf part attribute information. This section can be customized by choosing which of the Virtual Shelf part attributes to include (See **Figure 7.4**). The Feedback Report form can include any combination of available attributes. This may result in either all, some, or none of the attributes being shown on the form depending on what is desired. Feedback Attribute Management is configured on a Virtual Shelf category by category basis. By default, no part attributes are included on the Feedback Report for a given category.

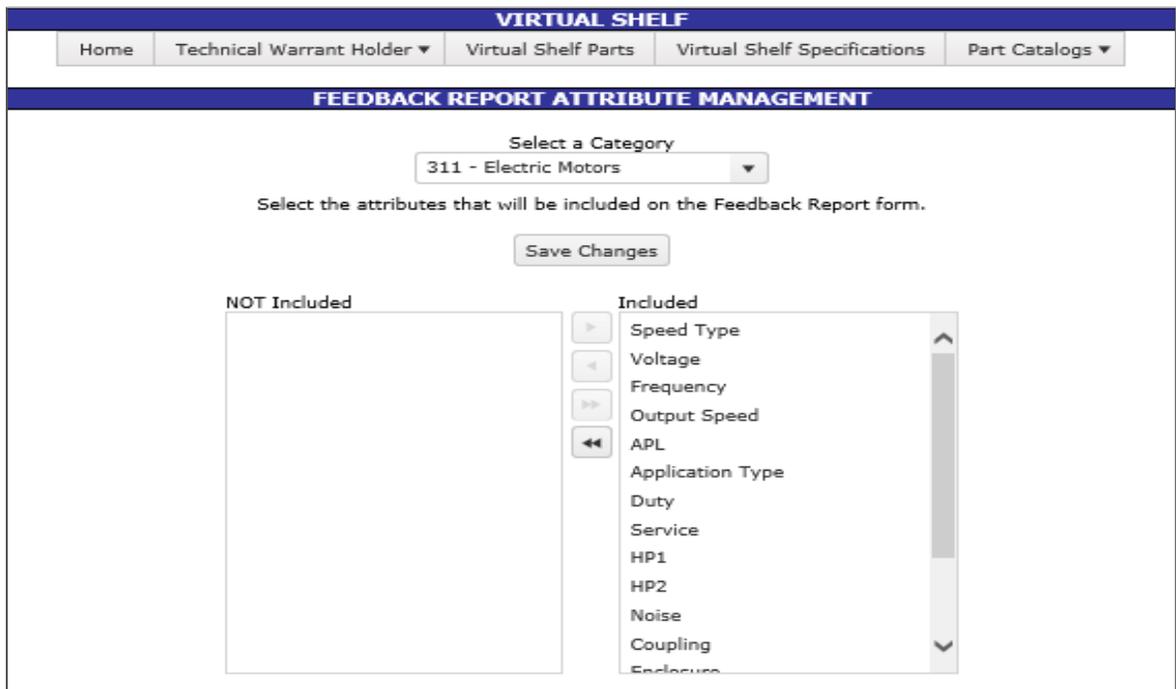


Figure 7.4

- F. **Import TOC Data:** Please refer to [Section 3.2.D](#) for a description of this functionality.

7.2 COMMONALITY COST MIODEL

Please refer to [Section 6.1](#) for description of this functionality.

7.3 VIRTUAL SHELF PARTS

Use the drop down to select a category of parts to review (See **Figure 7.5**).

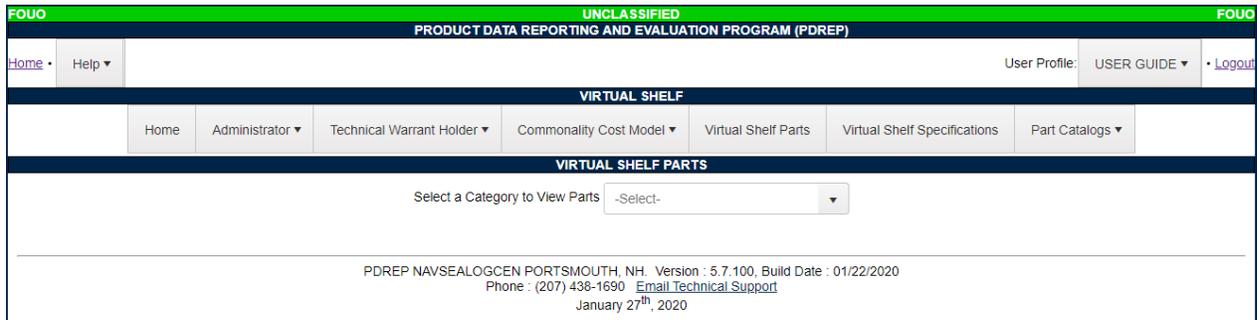


Figure 7.5

All Virtual Shelf part data can be viewed, edited, added, and removed using this grid. The user can search the Virtual Shelf parts and initiate feedback reports from a category or a specific part from this page by clicking on the 'Feedback Report' link associated with each part entry (See **Figure 7.6**). Each Virtual Shelf part record will also indicate if the part is listed in the Standard Parts Catalog (SPC) and provides a link to view that SPC data where matches exist. The virtual shelf parts grid requires rows to be edited individually.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

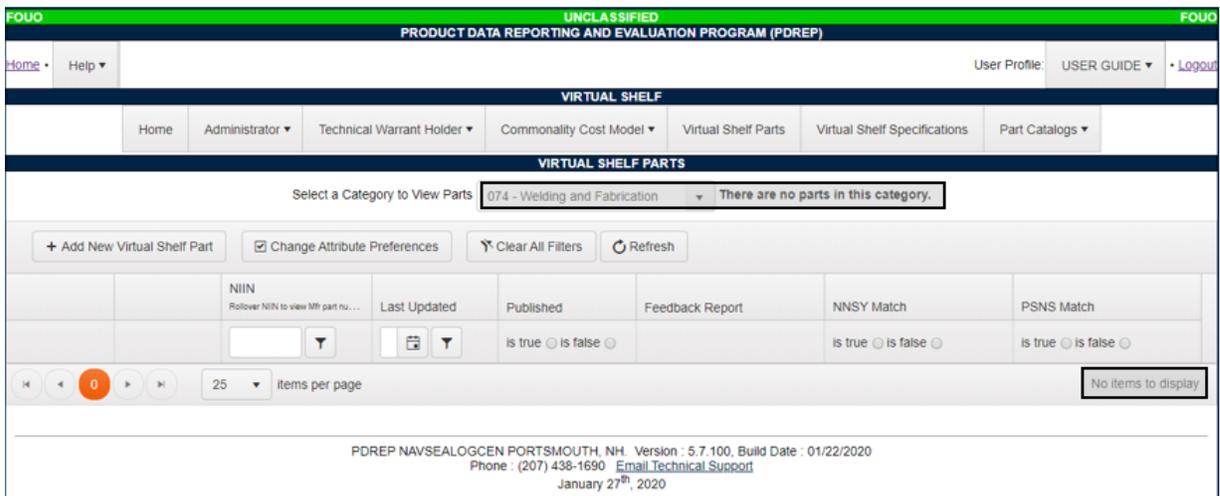


Figure 7.6

7.4 VIRTUAL SHELF SPECIFICATIONS

Specification Data capabilities allow the storage and retrieval of Deep Dive information for a specification-based Deep Dive (See **Figure 7.7**). This content is stored under a standard Category 'classification' and allows the user to add descriptive entries for each file stored. The system allows the user to enter a value for Specifications impacted (See **Figure 7.8** and **Figure 7.9**). This value, if found to match a specification value in any part listing will allow the user to link to the specification documents stored on the virtual shelf (See **Figure 7.10**).

The system presents a link to [ASSIST](https://assist.dla.mil) which is an online repository of specifications that may be used as reference material for any stored information.

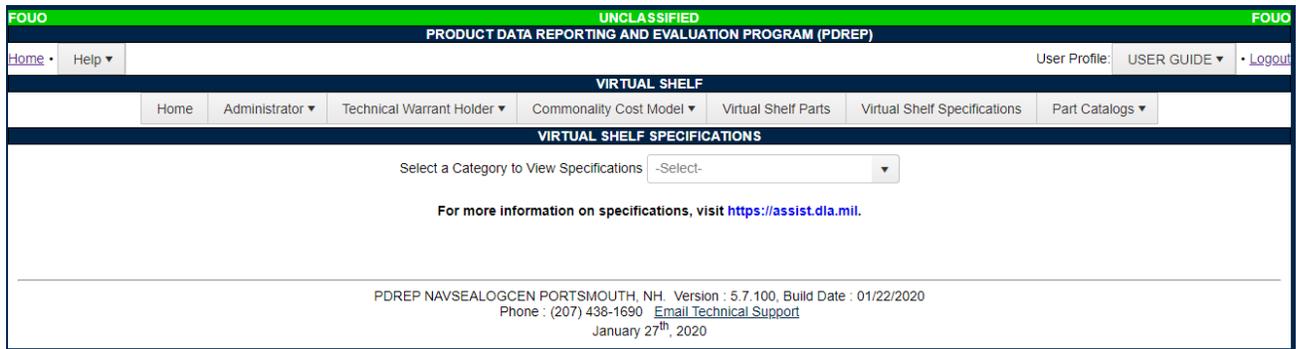


Figure 7.7

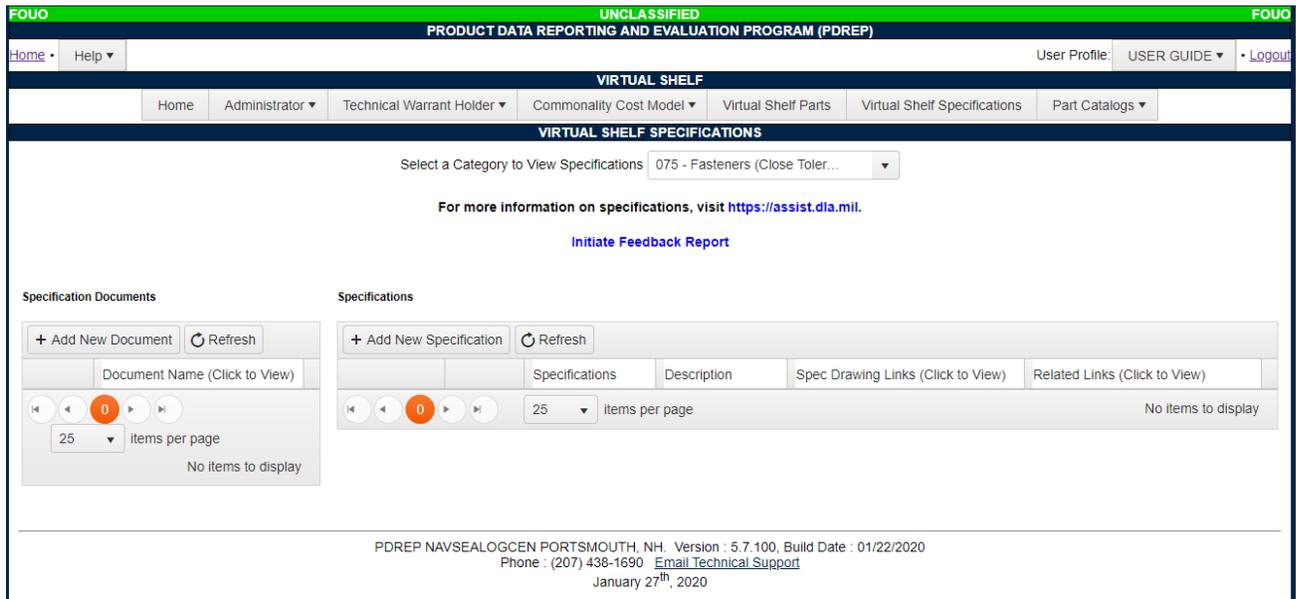


Figure 7.8

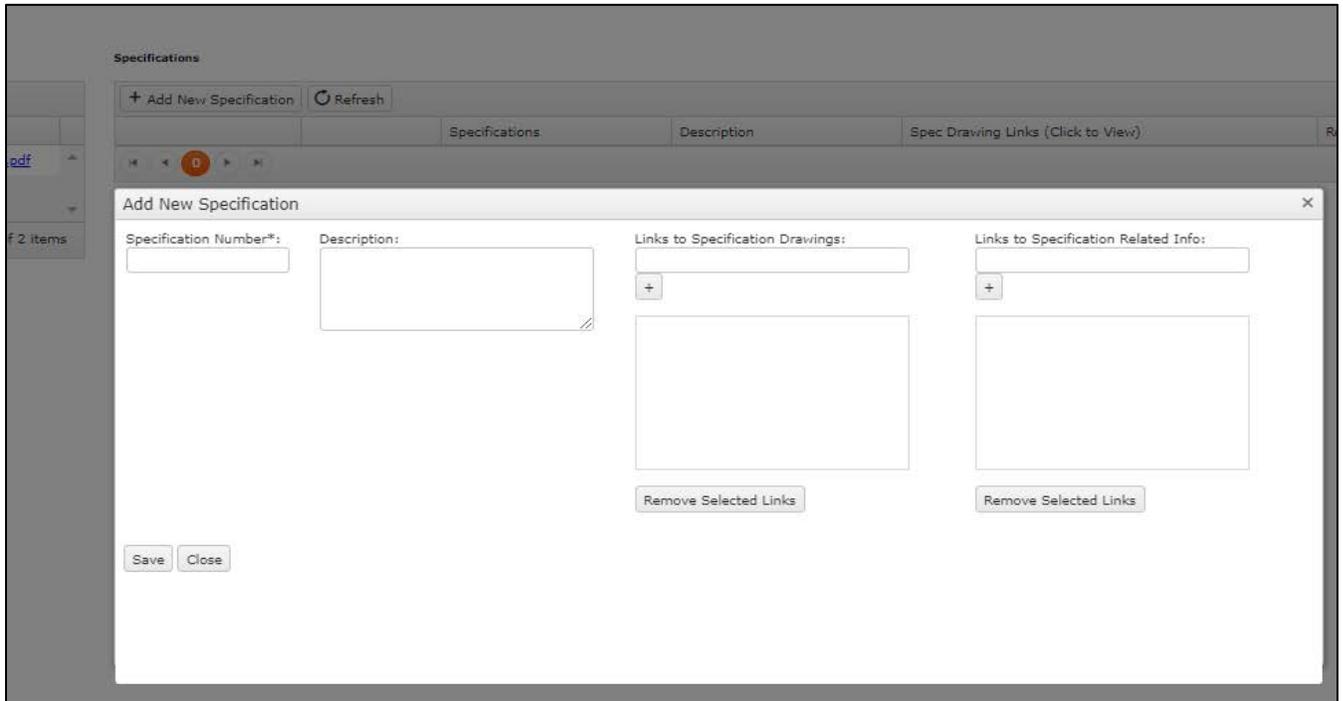


Figure 7.9

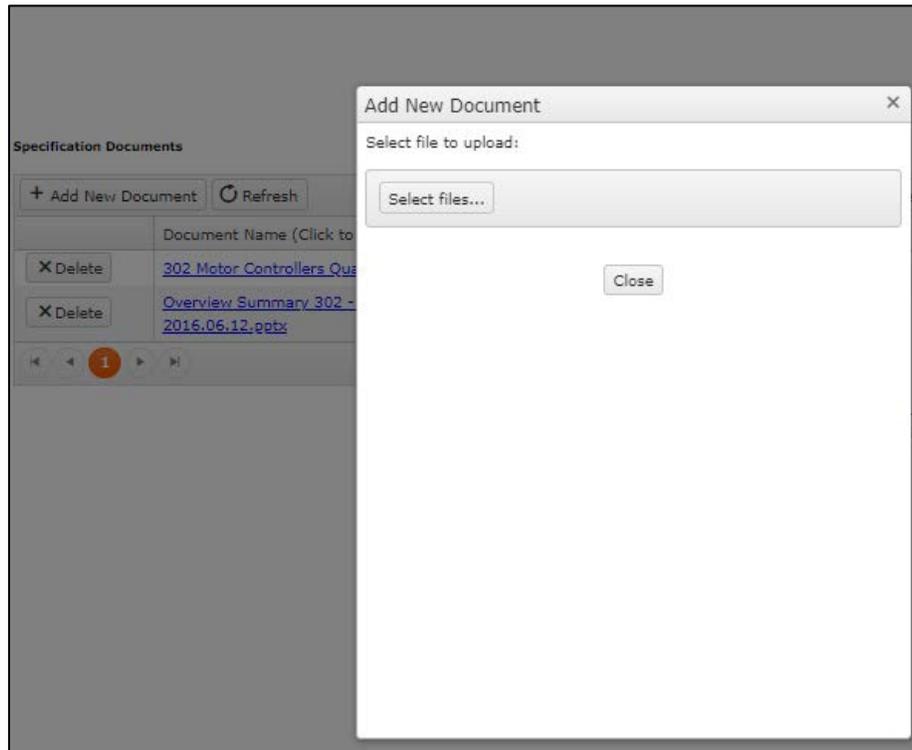


Figure 7.10

7.5 PARTS CATALOGS

A. Norfolk Naval Shipyard (NNSY):

The NNSY part catalog is represented by a read-only grid (See **Figure 7.11**). The data in this grid comes from the import process described in [Section 3.2](#). There are two columns in the grid that provide a unique filtering feature; they are labeled 'VS Part Match' and 'VS Spec Match.' Both columns, respectively, give the user the ability to filter the grid based on where 'part' or 'spec' matches exist or do not exist on the Virtual Shelf. The filters provide the user with insight on where there is overlap on the Virtual Shelf and the NNSY part catalog.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

VS Part Match	VS Spec Match	ID	BR_ID	MTL_NO	MTL_CAT	NOUN_NM_CD	NNM_CD	SZ_CD
<input type="checkbox"/>	<input type="checkbox"/>	133	MCHRY	700369	VENT	AIC	SC-	030000
<input type="checkbox"/>	<input type="checkbox"/>	134	MCHRY	700368	VENT	AIC	SC-	050000
<input type="checkbox"/>	<input type="checkbox"/>	135	MCHRY	700367	VENT	AIC	SC-	070005
<input type="checkbox"/>	<input type="checkbox"/>	136	MCHRY	401530	FILTR_AIR	AIF		310000
<input type="checkbox"/>	<input type="checkbox"/>	137	MCHRY	401524	FILTR_AIR	AIF		311000
<input type="checkbox"/>	<input type="checkbox"/>	138	MCHRY	401525	FILTR_AIR	AIF		312000

Figure 7.11

B. Puget Sound Naval Shipyard (PSNS):

The PSNS part catalog is represented by a read-only grid (See **Figure 7.12**). The data in this grid comes from the import process described in [Section 3.2](#). There are two columns in the grid that provide a unique filtering feature; they are labeled 'VS Part Match' and 'VS Spec Match.' Both columns, respectively, give the user the ability to filter the grid based on where 'part' or 'spec' matches exist or do not exist on the Virtual Shelf. The filters provide the user with insight on where there is overlap on the Virtual Shelf and the PSNS part catalog.

Refer to [Section 3.1](#) for a description of how to use basic features of the grid.

FOUO									
UNCLASSIFIED									
PRODUCT DATA REPORTING AND EVALUATION PROGRAM (PDREP)									
Home		Help		User Profile		USER GUIDE		Log	
VIRTUAL SHELF									
Home		Administrator		Technical Warrant Holder		Commonality Cost Model		Virtual Shelf Parts	
Virtual Shelf Specifications		Part Catalogs							
PUGET SOUND NAVAL SHIPYARD (PSNS) - STANDARD PARTS CATALOG									
Clear All Filters									
Refresh									
VS Part Match	VS Spec Match	STD_INDEX	NOMEN	NSN	DESCR1	DESCR2	REQT1	REQT2	
is true <input type="radio"/> is false <input type="radio"/>	is true <input type="radio"/> is false <input type="radio"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="checkbox"/>	doNotShowToolTip			ADHESIVE		LATEX		
<input type="checkbox"/>	<input type="checkbox"/>	100-001STRL	PAI	012851329	PAINT, ZINC MOLYBDATE	FORMULA 84 (PRIMER)			
<input type="checkbox"/>	<input type="checkbox"/>	100-010STRL	PAI		PAINT, EPOXY-POLYAMIDE	FORMULA 150			
<input type="checkbox"/>	<input type="checkbox"/>	100-011STRL	PAI		PAINT, EPOXY-POLYAMIDE	FORMULA 151			
<input type="checkbox"/>	<input type="checkbox"/>	100-020STRL	PAI	013445089	ENAMEL, CHLORINATED-ALKYD RESIN	FORMULA 124, SOFT WHITE			
<input type="checkbox"/>	<input type="checkbox"/>	100-032STRL	PAI	013562941	ENAMEL, SILICONE ALKYD COPOLYMER	GRAY DECK, COLOR #26231			
<input type="checkbox"/>	<input type="checkbox"/>	100-033STRL	PAI	013562938	ENAMEL, SILICONE ALKYD COPOLYMER	DULL BLACK COLOR #37038			
<input type="checkbox"/>	<input type="checkbox"/>	100-040STRL	PAI	013445320	ENAMEL, SILICONE ALKYD COPOLYMER	BLACK DECK COLOR #27038			

Figure 7.12

8 SUMMARY

This concludes the Virtual Shelf instruction. The NSLC Portsmouth Help Desk is available to answer additional questions or to assist in data changes or exception processing and, can be contacted as follows:

E-Mail: webptsmh@navy.mil

Commercial: (207) 438-1690

DSN: 684-1690

Fax: (207) 438-6535