



# **Product Data Reporting and Evaluation Program (PDREP)**

## **Hull, Mechanical, & Electrical Equipment Data Research System (HEDRS) Application**

**User Guide  
28 SEP 2012**

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## **FORWARD**

The HEDRS application is a part of the Product Data Reporting and Evaluation Program (PDREP) - Automated Information System (AIS).

HEDRS is managed by the Naval Sea Logistics Center (NAVSEALOGCEN), Mechanicsburg, PA, under the cognizance of the Naval Sea Systems Command (NAVSEA) HM&E Standardization Program. The application is developed by and for the U.S. Navy (and other applicable DOD activities).

The purpose of the standardization program is in a phrase – Readiness and Cost. NAVSEA’s Hull, Mechanical, & Electrical (HM&E) Standardization Program's basic concept is to reduce the proliferation of new equipment throughout the Navy's active fleet. The objective of the Navy HM&E Equipment Standardization Program is to reduce life cycle logistic support costs by influencing design activity towards the selection of existing Navy equipment assets, which are currently in use within the Navy. Existing Standard Navy assets are: (1) supported by an Allowance Parts List (APL); (2) have piece parts support established in the Navy Supply System; (3) typically Commercial-Off-The-Shelf (COTS); and, (4) are known to be re-procurable at the end item and piece parts level from the Original Equipment Manufacturer (OEM).

The data contained in HEDRS is unclassified and For Official Use Only. Users must be aware that the capabilities of HEDRS allow data to be correlated in such a manner that it would be considered sensitive.

Questions or comments concerning the HEDRS program may be addressed to:

POC - Program Manager

Com: 717-605-2065 / DSN: 430-20655450

Naval Sea Logistics Center

Mechanicsburg, PA 17055

## INTRODUCTION

The Hull, Mechanical and Electrical (HM&E) Equipment Data Research System (HEDRS) is a compilation of databases and programs that provide a means by which the maintenance, operations, engineering, planning and logistics communities research HM&E equipment data to help resolve emergent or anticipated problems.

There are four basic types of data in the HEDRS database and used by the HEDRS utilities:

**Configuration Data.** HEDRS contains HM&E configuration data provided by NAVSEA's Configuration Data Managers' Database-Open Architecture (CDMD-OA) for active fleet Navy ships, the Military Sealift Command, and the Coast Guard.

**Equipment Data.** Form, fit and function characteristics data for the approximately 130,000 HM&E equipment is contained in the HEDRS databases.

**Supportability Data.** The level of supportability by the Original Equipment Manufacturer (OEM) for the equipment contained in HEDRS is obtained through the Naval Sea Logistics Center's Manufacturer Survey.

**ILS Data.** HEDRS identifies the availability of various ILS documentation (Tech Manuals, PMS, Drawings, Training) for the equipment contained in HEDRS.

The PDREP-HEDRS application is accessible via the NSLC Detachment Portsmouth home page: <https://www.pdrep.csd.disa.mil/>

Users that have access the PDREP-HEDRS application are also provided access to other common features that can be used to leverage contractor past performance and material history such as ADHOC queries and contractor profiles.

First time PDREP users will need to submit a User Access request form, available on the NSLC home page. Click on [User Access Request Form](#) to download the form. Follow the directions on the form to submit the request for access to PDREP.

The NSLC Detachment Portsmouth Customer Support Desk is available to answer questions or to address concerns not addressed in this document. For additional training resources, assistance or support, please contact the Customer Support Desk at:

Customer Support Desk

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

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

E-Mail: [webptsmh@navy.mil](mailto:webptsmh@navy.mil)

Mailing Address

Naval Sea Logistics Center Detachment Portsmouth

P.O. Box 2058

Portsmouth, NH 03804-2058

If you're already a PDREP User and would like to report a problem or submit comments on-line, log on to PDREP: <https://pdrep.csd.disa.mil/pdrep/pdrephome.do> and click on the Feedback link at the top of the Main Menu.

# 1 Accessing HEDRS

The Hull, Mechanical and Electrical (HM&E) Equipment Data Research System (HEDRS) is accessed through the Product Data Reporting and Evaluation Program (PDREP) Home Page at <https://www.pdrep.csd.disa.mil/> (Figure 1.1)

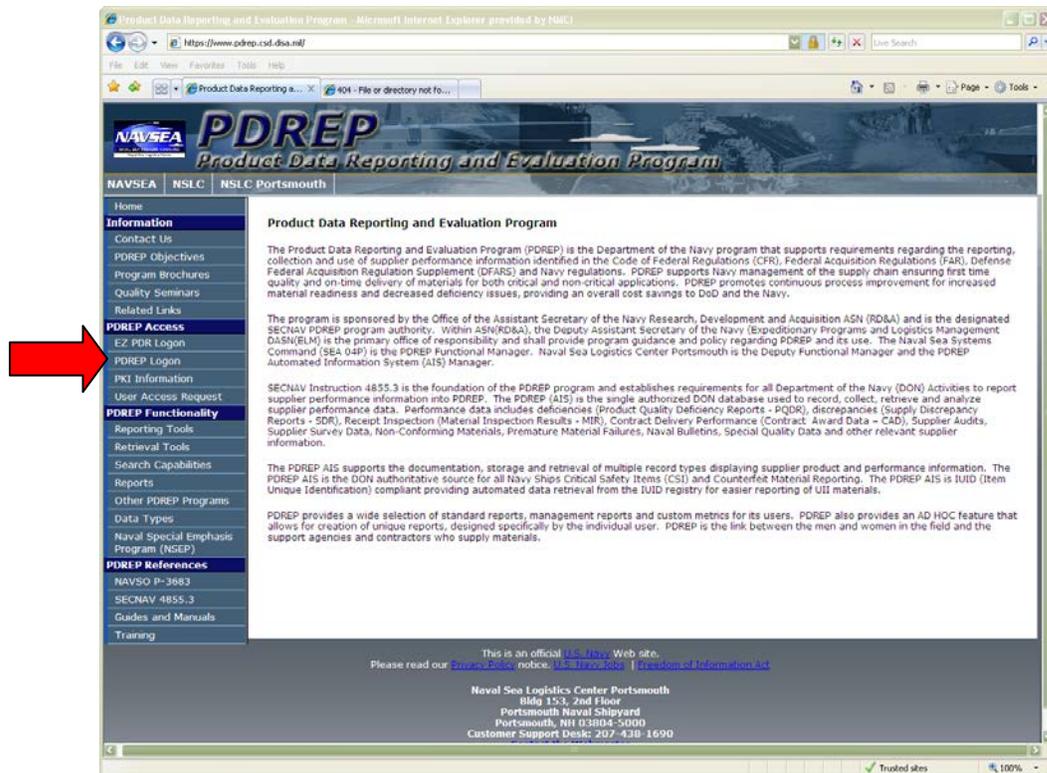


Figure 1.1

- a. From the left-hand menu, click the PDREP Logon link. The Log-on screen (Figure 1.2) displays.

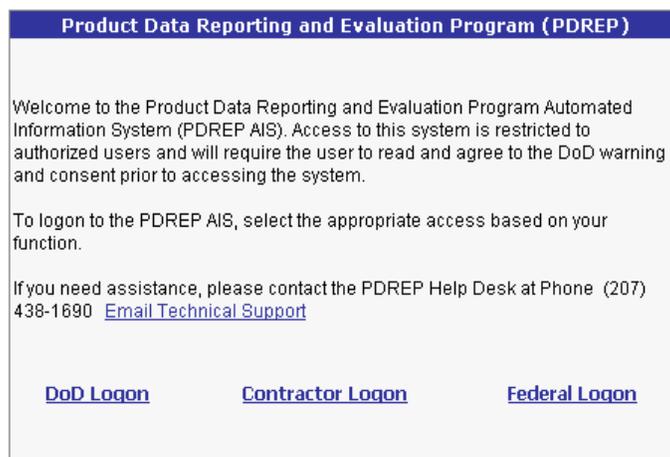
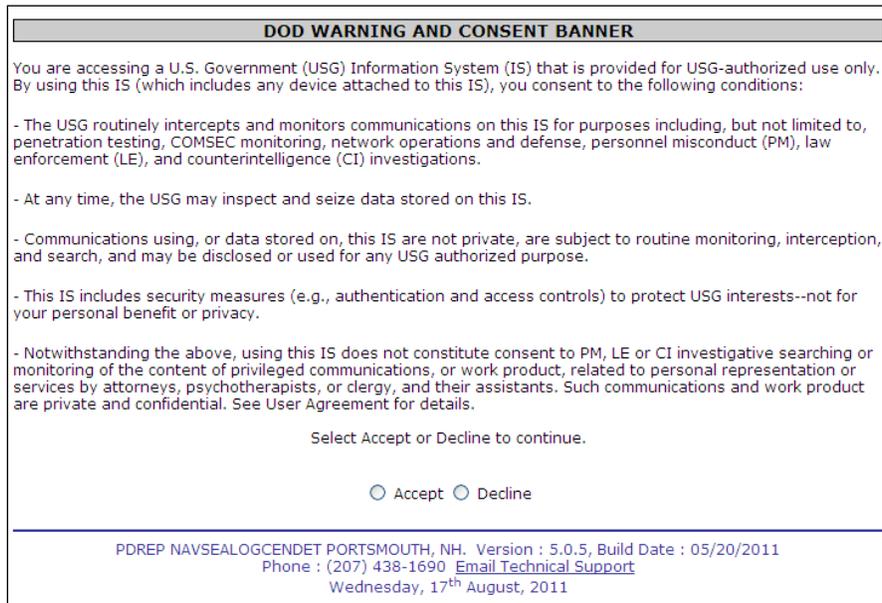


Figure 1.2

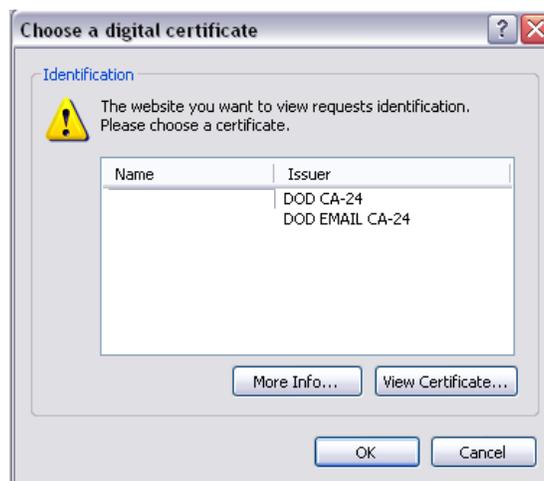
- b. DoD personnel possessing Common Access Cards (CAC) should click DoD Logon. The

Warning and Consent Banner (Figure 1.3) displays.



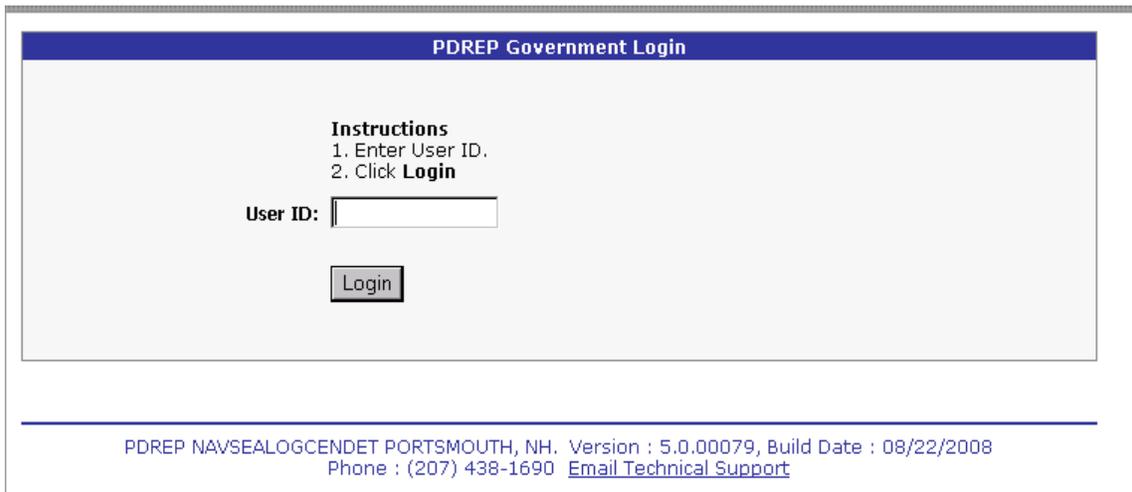
**Figure 1.3**

- c. Click the Accept button or access will be denied.
- d. The system will then prompt you to verify your identity from your CAC, or other DoD-issued Public Key Infrastructure (PKI) credentials as shown in Figure 1.4



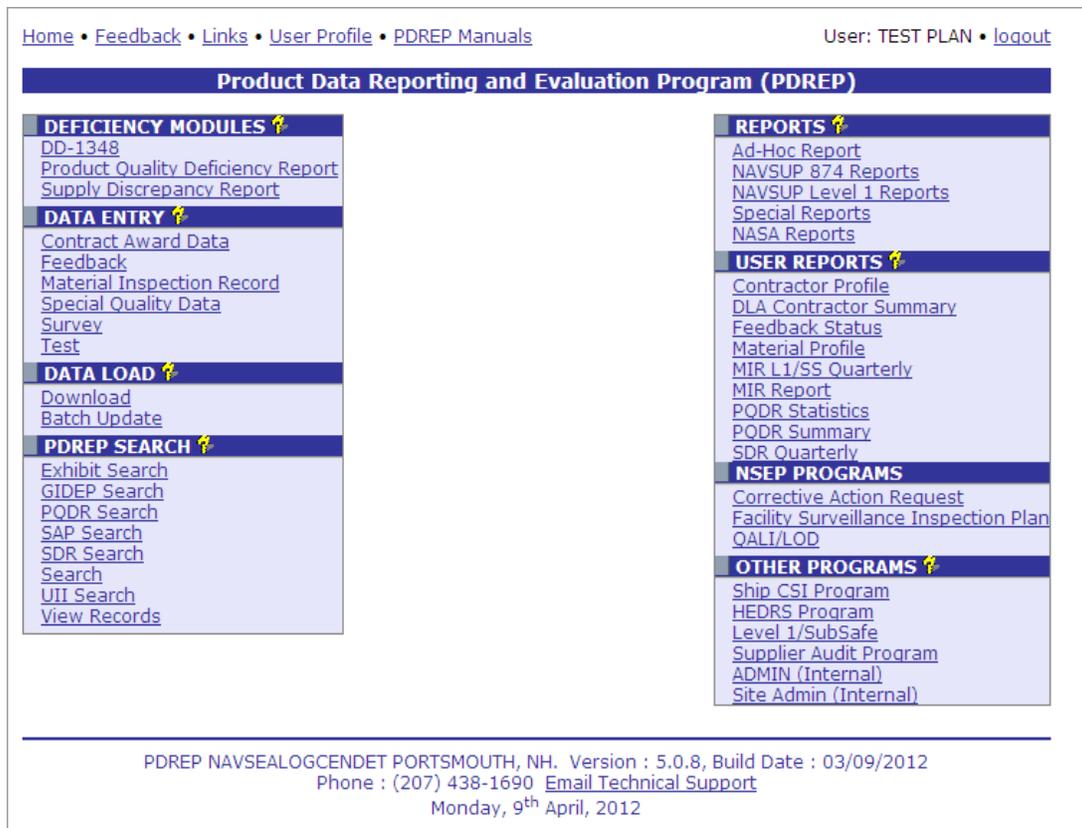
**Figure 1.4**

- e. If more than one certificate is shown, most users should choose the non e-mail certificate. After selecting the correct certificate, click the OK button to continue logging into the system. If you have difficulty with a certificate and have more than one available, please try the other certificates before contacting the PDREP Customer Support Desk.
- f. In the PDREP Government Login screen that follows (Figure 1.5), enter your User ID and click the Login button.



**Figure 1.5**

g. After successfully logging in, the PDREP Main Menu (Figure 1.6) will display.



**Figure 1.6**

Once in PDREP, click on the HEDRS Program link to access the HEDRS module.

## 2 APPLICATIONS DATA PROCESSING MODULE

Upon entering the HEDRS module the Application Data Processing screen (Figure 2.1) displays.



SWAB/ESWBS (Ship Work Authorization Boundary/Expanded Ship Work Breakdown Structure) Codes for descriptions to aid in analysis of the Application data output. It also provides the capability to convert the query file results to Microsoft Excel or XML files. This module of HEDRS provides a straight-forward, user-friendly method to obtain valuable equipment and ship application information.

## 2.1 Application Data Process – Query Selection

The three basic types of queries are Hull, Class, and APL. There are seven field parameters representing numerous query combinations available to the user to build a query. The seven parameters are:

- Hull
- Class
- Allowance Parts List (APL)
- Lead APL (LAPL)
- Equipment Category (EC)
- Engineering Support Code (ESC)
- Service Application Code (SAC)

The user also has the option to select the “One of a Kind” Report for a single Hull. The results of this search will detail the HM&E equipment that is installed on the selected hull, but nowhere else in the Fleet.

The input required depends on the query combination selected. As the user selects a query element, they will be prompted for their entry. The input data will appear on the screen.

If the user bases the query upon a Ship Class then an APL, LAPL or EC must also be selected. Various combinations are available allowing additional selections.

Secondary Input Variables include EC, LAPL, and ESC.

- EC – An Equipment Category (e.g. Pumps, Condensers, Motors, Valves) may be selected from the drop-down list box.
- LAPL – The Lead APL identifies a specific type of equipment within an Equipment Category. HEDRS contains a LAPL Assist feature to aid the user to select an appropriate LAPL.
- ESC – The user may select up to seven ESCs from the drop-down list box. A group of ESCs that are together can be selected by holding down the "Shift" button on your a Cs own the "Control (Ctrl)" button on your keyboard and select the ESCs.

## 2.2 Application Data Process – Results Screen

The Application Data Processing Results screen (Figure 2.2) will display the Query Criteria that was selected at the top of the display along with additional statistical data for the records found.

| Application Data Processing - Results  |                 |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
|--|-----------------|-------------------|---|------|-------|----------|--------|------|----------|----|-----|-----|-----------------------|------|-------|---------------|--------------|-----------------|---------------|--------|------------------|-----|-------------------|----|
| <input type="button" value="Print"/> <input type="button" value="Cancel"/>   |                 |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| <table border="1"> <thead> <tr> <th colspan="2">Query Criteria</th> </tr> </thead> <tbody> <tr> <td>HULL:</td> <td>AS39 CLASS: 0</td> </tr> <tr> <td>APL:</td> <td>011010001 LAPL:</td> </tr> <tr> <td>EC:</td> <td>1 ESC:</td> </tr> <tr> <td>SAC:</td> <td></td> </tr> </tbody> </table>   |                 |                   |   |      |       |          |        |      |          |    |     |     | Query Criteria        |      | HULL: | AS39 CLASS: 0 | APL:         | 011010001 LAPL: | EC:           | 1 ESC: | SAC:             |     |                   |    |
| Query Criteria   |                 |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| HULL:  | AS39 CLASS: 0   |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| APL:   | 011010001 LAPL: |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| EC:  | 1 ESC:          |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| SAC:   |                 |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| <table border="1"> <tbody> <tr> <td>Total no. of records:</td> <td>492</td> <td></td> <td></td> </tr> <tr> <td>Total APL's:</td> <td>492</td> <td>Average PRPC:</td> <td>184</td> </tr> <tr> <td>Total Fleet POP:</td> <td>834</td> <td>Average NIIN Cnt:</td> <td>17</td> </tr> </tbody> </table>   |                 |                   |   |      |       |          |        |      |          |    |     |     | Total no. of records: | 492  |       |               | Total APL's: | 492             | Average PRPC: | 184    | Total Fleet POP: | 834 | Average NIIN Cnt: | 17 |
| Total no. of records:  | 492             |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| Total APL's:   | 492             | Average PRPC:     | 184   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| Total Fleet POP:   | 834             | Average NIIN Cnt: | 17  |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| Data Download: <a href="#">Click here</a> to download data in Microsoft Excel format   |                 |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| Data Download: <a href="#">Click here</a> to download data in XML format   |                 |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| <input type="button" value="«"/> <input type="button" value="&lt;"/> <input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="5"/> <input type="button" value="6"/> <input type="button" value="7"/> <input type="button" value="&gt;"/> <input type="button" value="»"/> |                 |                   |   |      |       |          |        |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| APL ↓  | ESC             | COTS              | Nomenclature                                    | STHN | SAC   | Ship Pop | Ft Pop | PRPC | Niin Cnt | TM | PMS | TRN | MFR                   | NAVY |       |               |              |                 |               |        |                  |     |                   |    |
| 01A030093  | P               |                   | VACUUM PUMP RTY<br>GPM/ CFM                     |      | DAVRV |          | 1      |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| 01A040010  | A               | Y                 | PUMP HND HYD GPM/<br>CU IN                      |      | DBBQM |          | 1      | 45   | 3        |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| 01A040089  | P               |                   | VACUUM PUMP RTY<br>GPM/ CFM                     |      | DAVRV |          | 1      |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| 01A050032  | *               |                   | PUMP HYD<br>25.000GPM/ CFM                      |      | OBLEP |          | 1      |      |          |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| 10A010012  | T               | C                 | METER 0TO                                       |      | OBLEN |          | 1      | 0    | 1        |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |
| 11A040002  | A               | N                 | POWER SUPPLY<br>INP440AC OTP 28DC<br>28.6AMP HZ |      | DAGIJ |          | 1      | 291  | 13       |    |     |     |                       |      |       |               |              |                 |               |        |                  |     |                   |    |

**Figure 2.2**

The results will display the following information for each record that is returned

- a. **APL:** Allowance Parts List
- b. **ESC:** Engineering Support Code
- c. **COTS:** Whether or not the equipment is Commercial Off-the-Shelf.
- d. **NOMENCLATURE:** Name of the material
- e. **STHN:** Ship Type and Hull Number
- f. **SAC:** Service Application Code
- g. **SHIP POP:** Ship Population – The number of Ships in which equipment are installed
- h. **FLT POP:** Fleet Population – The total installations of the equipment in the Fleet
- i. **PRPC:** Projected Repair Parts Cost – The annual average cost of parts
- j. **NIIN CNT:** The number of NIINs that are contained in the results
- k. **TM:** Technical Manual – Marked if the Navy maintains a tech manual for the equipment
- l. **PMS:** Planned Maintenance System – This column is marked if the Navy has developed a planned maintenance system for the equipment
- m. **TRN:** Training – Marked if the Navy has a training course for the equipment.
- n. **MFR:** Manufacturer Drawing – This column is marked if the Navy has access to the manufacturers drawing.

- o. **NAVY:** Navy Drawing – Marked if the Navy has access to the Navy drawing.

Users may sort results by clicking any column header that is underlined. An arrow will indicate will indicate the direction of sorting.

Each result set can be downloaded to Excel or XML files by clicking the related “here” link.

The user can click on a selected APL to view additional information for the equipment (Figure 2.3).

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[Ship Data](#) | [CCF/ILS Data](#) | [CAGE/MFR Cross Ref](#)

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**Ship Data**

APL: 013070001  
 Nomenclature: PUMP RCIPG 20.000GPM10000.00PSI DVBD  
 Ship POP: 4  
 Fleet POP: 4  
 ESC: A

| ↓     | SAC   | SWAB/ESWBS | Quantity |
|-------|-------|------------|----------|
| CV67  | 0BJNA | 59311      | 1        |
| CVN65 | 0ARIN | 66511      | 1        |
| CVN68 | 0BJNA | 59311      | 1        |
| CVN72 | 0BJNA | 59311      | 1        |

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 Tuesday, 26<sup>th</sup> June, 2012

**Figure 2.3**

This screen has the following three Tab options.

- a. **Ship Data:** Displays a list of all ships on which the equipment is installed. Hull, SAC, SWAB/ESWBS, and Quantity data are displayed.
- b. **CCF/ILS Data:** Displays the full Component Characteristics File data for the equipment
- c. **CAGE/MFR Cross Ref:** Displays data for the equipment’s manufacturer.

From this page, the user can select the Ship Data tab (Figure 2.3), CCF/ILS (Figure 2.4), or CAGE/MFR Cross Ref (Figure 2.5). See each tab for additional information for the selected APL.

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[Ship Data](#) | **CCF/ILS Data** | [CAGE/MFR Cross Ref](#)

| CCF / ILS Data        |  |
|-----------------------|--|
| <b>APL:</b> 013070001 | <b>Nomenclature:</b> PUMP RCIPG 20.000GPM10000.00PSI DVBD  |
| <b>ESC:</b> A         | <b>Best Value:</b>   |
| <b>CAGE:</b> 29731    | <b>Mfr. Name:</b> GARDNER DENVER WATER JETTING SYSTEMS INC |
| <b>LAPL:</b> 01-002   | <b>Mfr. DWG:</b> 31400A REV                                |
| <b>Training:</b> X    | <b>Tech. Manual:</b> X                                     |
| <b>COTS:</b> Y        | <b>PRPC:</b> 33  |
|                       | <b>NAVY DWG:</b>   |
|                       | <b>Planned Maint. Sched:</b> X                             |
|                       | <b>NIIN Cnt:</b> 17  |

| Line  | Characteristic / CCF Data                     |
|---|---|
| 03  | <b>MFR DWG :</b><br>31400A REV -              |
| 04  | <b>MFR ID :</b><br>FE-145 -                   |
| 05  | <b>MIL SPEC :</b><br>MIL-C-28579 -            |
| 06  | <b>NSN :</b><br>9B4320-01-181-5686 -          |
| 11  | <b>CAPACITY :</b><br>00020.000 - GPM          |
| 17  | <b>TOTAL DYNAMIC HEAD :</b><br>10000.00 - PSI |
| 19  | <b>MOUNTING :</b><br>HORZ -                   |
| 20  | <b>TYPE DRIVE :</b><br>DVBD -                 |
| 22  | <b>SPEED :</b><br>00100 - RPM//               |
| <b>Remarks:</b><br>M97-PER MFR REPLACED BY A QU300M,TYPE-HQDA,DIA OF CYLINDERS-7/8 IN,LENGTH STROKE-3 IN,1.75X.938,NO OF CYLINDERS-5,*S/P E9942,NOTE-ALL COMPONENTS ON THIS APL ARE ASBESTOS-FREE.,THIS APL SHALL NOT BE CHANGED WITHOUT RECEIPT OF PRIOR,WRITTEN APPROVAL FROM NAVSEA PMS312L/NAVSSSES 9451.,CCF DATE-1276 |   |

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**Figure 2.4**

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[Ship Data](#) | [CCF/ILS Data](#) | **CAGE/MFR Cross Ref**

| CAGE Results  |                                      |
|---|--------------------------------------|
| <b>CAGE:</b> 29731  | <b>Replace CAGE:</b> N/A             |
| <b>Manufacturer:</b> GARDNER DENVER WATER JETTING SYSTEMS INC |                                      |
| <b>Division:</b> N/A  | <b>Type Code:</b> A                  |
| <b>Points of Contact:</b> JOHN JACOBSON                       |                                      |
| <b>Address1:</b> 12300 N HOUSTON ROSILYN ROAD                 |                                      |
| <b>Address2:</b> N/A  |                                      |
| <b>City / State:</b> HOUSTON, TX                              |                                      |
| <b>Country:</b> UNITED STATES                                 |                                      |
| <b>Phone:</b> (800) 231-3628                                  | <b>Fax:</b> (281) 448-7500           |
| <b>Email:</b> john.jacobson@gardnerdenver.com                 | <b>Website:</b> www.waterjetting.com |

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**Figure 2.5**

### 3 Best Value Process Module

The Best Value Process Module provides a capability to research material by NIIN, APL, CAGE or Manufacturer. This module can locate the desired material or technically similar material and can display the materials availability within the supply system. The Best Value Process search page is displayed in Figure 3.1.

The screenshot shows the 'Best Value Quick Search' web application interface. At the top, there is a navigation bar with links: Home, Feedback, Links, User Profile, PDREP Manuals, and a user status 'User: TEST PLAN • logout'. Below this is a menu bar with tabs: App Process, Best Value Process (selected), CCF Process, DMSMS Process, EL Process, HC Process, Utilities, and ILS Cost Calc.

The main content area is titled 'Best Value Quick Search' and contains the following sections:

- Introduction:** 'The Best Value Quick Search Processing Module provides:'
  - One input screen allowing searches by National Stock Number (NIIN) or Allowance Parts List (APL) or Manufacturers CAGE or Part Number.
  - Best Value Information for Technically similar equipment.
  - DLA & Supply System availability with the results.
- Instructions:**
  1. Enter **NIIN** or **APL** and Click **Get Best Value Results** OR
  2. Enter **CAGE** Click **Get PART NO.** Select **Part Number** Click **Get Best Value Results** OR
  3. Describe item by entering **item name** (eg. GATE VALVE; AC MOTOR, AIR COMPRESSOR) Click **Get Criteria**
    - a. Select appropriate **Item Description** Click **Get Technical Characteristics**
    - b. Select appropriate values for the **three technical characteristics** Click **Get Best Value Results** OR
  4. Click **GET EC List**
    - a. Select **Equipment Category** and Click **Get Best Value Results**

The interface includes several input sections:

- Clear all Options:** A button labeled 'Clear All Options'.
- Enter A NIIN OR Enter an APL:** Two input fields for 'NIIN:' and 'APL:', each with a 'Get Best Value Results' button.
- OR Enter CAGE or Partial PART No. AND Select a Part No.:** Input fields for 'CAGE:' (with 'Get Part No.' button) and 'Partial Part No.:' (with 'Get Part No.' button). A 'Part No:' dropdown menu (currently '-SELECT-') with a 'Get Best Value Results' button.
- OR Describe Item:** An 'Item Name:' input field with a 'Get Criteria' button. Below it, 'and Select Item Description:' dropdown menu (currently '-SELECT-') with a 'Get Technical Characteristics' button. At the bottom of this section, three dropdown menus (all currently '-SELECT-') with a 'Get Best Value Results' button.
- or Select Equipment Category:** A dropdown menu (currently '-SELECT-') with a 'Get Best Value Results' button.

At the bottom of the page, there is a footer with the following text: 'PDREP NAVSEALOGCENDET PORTSMOUTH, NH. Version : 5.0.8, Build Date : 03/09/2012', 'Phone : (207) 438-1690 Email Technical Support', and 'Tuesday, 26<sup>th</sup> June, 2012'.

**Figure 3.1**

Follow the on screen instructions to perform a search. Results will be shown as in Figure 3.2.

| Best Value Quick Search - Results   |                               |                           |            |     |      |           |      |  |  |                 |       |
|---|-------------------------------|---------------------------|------------|-----|------|-----------|------|--|--|-----------------|-------|
| <input type="button" value="Print"/> <input type="button" value="Cancel"/>                      |                               |                           |            |     |      |           |      |  |  |                 |       |
| Best Value Quick Search Query Criteria  |                               |                           |            |     |      |           |      |  |  |                 |       |
| Type of Query: EQUIPMENTCATEGORY Criteria: 1 Message: Best Value Results                        |                               |                           |            |     |      |           |      |  |  |                 |       |
| Total no. of records: 3938  |                               |                           |            |     |      |           |      |  |  |                 |       |
| Best Value Data Download: Click <a href="#">here</a> to download data in Microsoft Excel format |                               |                           |            |     |      |           |      |  |  |                 |       |
| Best Value Data Download: Click <a href="#">here</a> to download data in XML format             |                               |                           |            |     |      |           |      |  |  |                 |       |
| Best Value Rank   | Status                        | Tech Info                 | APL        | COG | FSC  | NIIN      | SMIC | Nomenclature                             |  | Item Name       | CAGE  |
| 1   | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 016150585  | 3B  | 4320 | 004868482 |      | PUMP CTFGL 595.000GPM 65.00PSI 860RPM MD |  | PUMP CTFGL      | 83130 |
| 2   | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 017030019  | 3B  | 4320 | 005057770 |      | PUMP CTFGL 30.000GPM 5.00PSI 1800RPM MD  |  | PUMP CTFGL      | 10941 |
| 3   | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 019310073  | 9B  | 2910 | 008082655 |      | PUMP RTY GPM PSI RPM ATT                 |  | PUMP RTY        | 72582 |
| 4   | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 019700017  | 9B  | 4320 | 008930524 |      | PUMP CTFGL 12.000GPM 35.00PSI 9500RPM MD |  | PUMP CTFGL      | 25567 |
| 5   | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 016200194  | 9B  | 4320 | 009846269 |      | PUMP HND RTY 30.000GPM/ CU IN            |  | PUMP HND RTY    | 07524 |
| 6   | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 019310119  | 9C  | 2910 | 010249238 |      | PUMP FUEL ATT CYL                        |  | PUMP FUEL       | 72582 |
| 7   | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 016200541R | 9B  | 4320 | 010743112 |      | PUMP HND RTY GPM/ CU IN                  |  | PUMP HND RTY    | 07524 |
| 8   | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 016200543R | 9B  | 4320 | 011622649 |      | PUMP RTY GPM/ CFM MD                     |  | PUMP RTY        | 07524 |
| 9   | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 017940015R | 9B  | 4310 | 011957318 |      | VACUUM PUMP RTY GPM/ CFM MVB             |  | VACUUM PUMP RTY | 06289 |
| 10  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 016200482  | 9B  | 4320 | 012134410 |      | PUMP UNIT RTY 15.000GPM 60.00PSI 350RPM  |  | PUMP UNIT RTY   | 07524 |
| 11  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 017940023  | 9B  | 4310 | 012272879 | VM   | VACUUM PUMP RTY GPM/ 3.000CFM MD         |  | VACUUM PUMP RTY | 06289 |
| 12  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 016200574  | 9B  | 4320 | 012320123 |      | PUMP HND RTY 14.000GPM/ CU IN            |  | PUMP HND RTY    | 07524 |
| 13  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 018710011A | 3B  | 4320 | 012431951 |      | PUMP RTY 90.000GPM 110.00PSI 875RPM MD   |  | PUMP RTY        | 52330 |
| 14  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 019990222  | 9B  | 4320 | 012448442 |      | PUMP RTY 100.000GPM 3000.00PSI 3000RPM   |  | PUMP RTY        | 11341 |
| 15  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 016690004  | 9B  | 4320 | 012793128 |      | PUMP HND RCIPG GPM/ 1.500CU IN           |  | PUMP HND RCIPG  | 09990 |
| 16  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 019670006  | 3B  | 4320 | 012829002 |      | PUMP RCIPG 1.100GPM 100.00PSI MD         |  | PUMP RCIPG      | 99827 |
| 17  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 017840024  | 2B  | 4320 | 013034146 |      | PUMP CTFGL 5.000GPM 5.00PSI 1725RPM MD   |  | PUMP CTFGL      | 59015 |
| 18  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 016320235  | 3B  | 4320 | 013100752 |      | PUMP RTY 30.000GPM 75.00PSI 1750RPM MD   |  | PUMP RTY        | 63097 |
| 19  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 019990537  | 3B  | 4320 | 013934618 |      | PUMP RTY GPM PSI RPM                     |  | PUMP RTY        | 62809 |
| 20  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 016161278  | 3B  | 4320 | 014006070 |      | PUMP RTY 3.000GPM 150.00PSI 1200RPM      |  | PUMP RTY        | 59180 |
| 21  | <a href="#">SUPPLY STATUS</a> | <a href="#">Tech Info</a> | 018650003  | 3B  | 4320 | 014175921 |      | PUMP CTFGL 21.000GPM PSI 3450RPM MD      |  | PUMP CTFGL      | 26541 |

**Figure 3.2**

The criteria used to get the results listed are displayed in the Best Value Quick Search Query Criteria heading at the top of the page. Click the Print button to print the webpage. Click the Cancel button to return to the previous screen.

The data on the web page is downloadable to an MS Excel or XML file by clicking the appropriate “here” links.

The results screen displays the Best Value Rank as determined by an internal algorithm, APL, COG, FSC, NIIN, SMIC, Nomenclature, Item Name, and CAGE. The results screen has a link to Tech Info (Figure 3.3) and SUPPLY STATUS (Figure 3.4). Click the links for additional data about the material.

Print Cancel

| CCF / ILS Data   |   |                                |
|--|---|--------------------------------|
| <b>APL:</b> 016150585  | <b>Nomenclature:</b> PUMP CTFGL 595.000GPM 65.00PSI 860RPM MD |                                |
| <b>ESC:</b> X  | <b>Best Value:</b>  |                                |
| <b>CAGE:</b> 83130   | <b>Mfr. Name:</b> BUFFALO PUMPS INC                           |                                |
| <b>LAPL:</b> 01-017  | <b>Mfr. DWG:</b> CA10923 REV                                  | <b>NAVY DWG:</b>               |
| <b>Training:</b> X   | <b>Tech. Manual:</b> X  | <b>Planned Maint. Sched:</b> X |
| <b>COTS:</b>   | <b>PRPC:</b> 2477   | <b>NIIN Cnt:</b> 22            |
| Line   | Characteristic / CCF Data                                     |                                |
| 03   | MFR DWG :<br>CA10923 REV -                                    |                                |
| 04   | MFR ID :<br>6X12 -  |                                |
| 05   | MIL SPEC :<br>MILP18472 -                                     |                                |
| 06   | NSN :<br>384320-00-486-8482 -                                 |                                |
| 10   | TYPE :<br>DBL STG SGL SUCT VLT -                              |                                |
| 11   | CAPACITY :<br>00595.000 - GPM                                 |                                |
| 17   | TOTAL DYNAMIC HEAD :<br>00065.00 - PSI                        |                                |
| 18   | ROTATION :<br>CW -  |                                |
| 19   | MOUNTING :<br>VERT -  |                                |
| 20   | TYPE DRIVE :<br>MD -  |                                |
| 21   | POWER RATING :<br>0037.50 - BHP                               |                                |
| 22   | SPEED :<br>00860 - RPM  |                                |
| 23   | MEDIA :<br>WTR -  |                                |
| <b>Remarks:</b><br>*SERVICE-MAIN CONDENSER CONDENSATE,*SP A62016 CVA67 8 PER H577-6350A15,APL HAS BEEN<br>UPDATED TO INCLUDE DLP "DEPOT LEVEL,PROVISIONING" REQUIREMENTS.,ENGSC-A,0741,*0573 |   |                                |

Figure 3.3

| BVSPTQS On Hand Data  |   |                    |      |              |
|---|---|--------------------|------|--------------|
| <b>APL:</b> 016150585   |   |                    |      |              |
| <b>Nomenclature:</b> PUMP CTFGL 595.000GPM 65.00PSI 860RPM MD |   |                    |      |              |
| <b>NIIN:</b> 004868482  |   |                    |      |              |
| <b>Item Name:</b> PUMP CTFGL                                  |   |                    |      |              |
| ↓   | Condition Code                                    | Purpose Code       |      | Description  |
| 1   | A -- SERVICEABLE (ISSUABLE WITHOUT QUALIFICATION) | A -- General Issue | DDRV | Richmond, VA |

Figure 3.4

## 4 COMPONENT CHARACTERISTICS FILE (CCF) PROCESS

Home • Feedback • Links • User Profile • PDREP Manuals User: TEST PLAN • [Logout](#)

[App Process](#) | [Best Value Process](#) | **CCF Process** | [DMSMS Process](#) | [EL Process](#) | [HC Process](#) | [Utilities](#) | [ILS Cost Calc](#)

### Component Characteristic File

The Component Characteristic File Module provides:

- Capability to identify equipment installed on fleet ships that meet user-selected criteria
- Information related to the equipment's form, fit and function and the equipment's identification

**Instructions**  
1. Enter/Select **APL**, **CAGE**, **NOUN NAME** or **APL ORIGIN**  
2. Click appropriate **Query** button or select **EC Click Here**

**Equipment Commonality**  
[Click Here](#)

**Single APL**  
APL:

**CAGE Code**  
CAGE:   
EC:  (Optional)  
ESC:   
A  
B (Optional)

**Noun Name**  
Noun Name:

**APL Origin**  
APL ORIGIN:

---

PDREP NAVSEALOGCENDET PORTSMOUTH, NH. Version : 5.0.8, Build Date : 03/09/2012  
Phone : (207) 438-1690 [Email Technical Support](#)  
Tuesday, 26<sup>th</sup> June, 2012

**Figure 4.1**

The Component Characteristic File Module (Figure 4.1) provides the capability to identify equipment installed on fleet ships that meet user-selected criteria, and information related to the equipment's form, fit, and function and the equipment's identification.

The CCF Process allows the user to step through various combinations of data; and retrieves CCF data using 5 different types of queries.

- **Equipment Commonality Query:** Select the “Click Here” link to view the search page for locating more data related to a material specifications or individual characteristics. See Section 4.1.
- **Single APL Query:** Displays the full CCF data for an entered APL
- **CAGE Query:** Displays all of the APLs that are assigned to a selected CAGE.
- **Noun Name Query:** Displays all APLs having a selected Noun Name
- **APL Origin Query:** Displays APLs associated with specific origin type (e.g. AOE-10 New Construction)

## 4.1 CCF Process - Equipment Commonality Process Query

The Component Characteristic File – Equipment Commonality Process page is shown in Figure 4.2.

The screenshot shows a web application interface for the Component Characteristic File - Equipment Commonality Process. At the top, there are navigation links: Home, Feedback, Links, User Profile, and PDREP Manuals. The user is identified as TEST PLAN with a logout link. The main title is "Component Characteristic File - Equipment Commonality Process" with sub-links for CCF PROCESS and HEDRS HOME. Below the title, there are instructions for the user to follow, including selecting EC, LAPL, Noun Names, ESC, and PREFIX/SUFFIX, and clicking Get LAPL, Get Data, Query, and Next. The interface is divided into sections: "First Selection" with an EC dropdown menu set to "-SELECT-" and a "Get LAPL" button; "Options" with an "ESC:(up to 7)" dropdown menu showing a list of options (-None-, \*, A, B, C, F, G) and a "Select Prefix or Suffix:" dropdown menu set to "-SELECT-" with a "Get Data" button. At the bottom of the "Options" section are "Query" and "Next" buttons. The footer contains contact information for PDREP NAVSEALOGCENDET PORTSMOUTH, NH, including version, build date, phone, email, and the date Tuesday, 26th June, 2012.

Figure 4.2

This process is designed to identify equipment matching a user set of selection parameters (EC, LAPL, Noun Name, ESC, and characteristic information). The program allows the user to walk through all the steps required to choose and enter the selection parameters, execute the program, and display or print the resulting output.

The First Selection allows the user to select an Equipment Category from a drop-down list box (Figure 4.3).

### Component Characteristic File - Equipment Commonality Process

[CCF PROCESS](#) [HEDRS HOME](#)

#### Instructions

1. Select **EC** from first selection group
2. Click **Get LAPL**
3. Select **LAPL** - and/or -
4. Select **Noun Names**(up to 5) from second selection group
5. Optionally select **ESC(up to 7)** and **PREFIX / SUFFIX** from options selection group
6. For **PREFIX / SUFFIX**
  - a. Select **PREFIX** -or- **SUFFIX**
  - b. Click **Get Data**
  - c. Select a value from the list.
10. To get Line Information click **Next** or click **Query** for results.

First Selection

EC: -SELECT-

Get LAPL

Options

ESC:(up to 7)

- None-
- \*
- A
- B
- C
- F
- G

- SELECT-
- 1 - PUMPS
- 2 - BOILERS
- 3 - HEAT EXCHANGERS
- 4 - CONDENSERS
- 5 - TURBINES
- 6 - COMPRESSORS
- 7 - HEATERS
- 8 - DISTILLING PLANTS
- 9 - BATTERY CHARGERS
- 10 - METERS
- 11 - CONVERTERS
- 12 - MNT/REPAIR SHP EQUIP
- 13 - TRANSFORMERS
- 14 - CIRCUIT BREAKERS
- 15 - CONTROLLERS
- 16 - GENERATORS
- 17 - MOTORS
- 18 - MOTOR GENERATORS
- 19 - RELAYS
- 20 - RHEOSTATS
- 21 - SWITCHES
- 22 - SWITCHBOARDS
- 23 - VISUAL ALARMS
- 24 - LIGHTING FIXTURES
- 25 - GYRO COMPASS
- 26 - PROJECTION EQUIP
- 27 - I/C EQUIP
- 28 - NAVIGATIONAL EQUIP
- 29 - INJECTORS

PDREP NAVSEALOGCENDET  
Phone :

Build Date : 03/09/2012  
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**Figure 4.3**

Clicking the Get LAPL button brings the LAPL data in for the second selection criteria (Figure 4.4).

**Component Characteristic File - Equipment Commonality Process**

[CCF PROCESS](#) [HEDRS HOME](#)

**Instructions**

1. Select **EC** from first selection group
2. Click **Get LAPL**
3. Select **LAPL** - and/or -
4. Select **Noun Names**(up to 5) from second selection group
5. Optionally select **ESC**(up to 7) and **PREFIX / SUFFIX** from options selection group
6. For **PREFIX / SUFFIX**
  - a. Select **PREFIX** -or- **SUFFIX**
  - b. Click **Get Data**
  - c. Select a value from the list.
10. To get Line Information click **Next** or click **Query** for results.

First Selection

EC:

Second Selection

LAPL:

AND / OR

Select up to 5 Noun Names:

- SELECT-
- 88-001 - VALVE
- 88-001 - VALVE B
- 88-001 - VALVE B ANL
- 88-001 - VALVE B CHK

Options

ESC:(up to 7)

- None-
- \*
- A
- B
- C
- F
- G

Select Prefix or Suffix:

**Figure 4.4**

The Second Selection allows the user to select an entire LAPL or by using the Get Noun Names button the user can narrow the selection down to five or less individual Noun Names from the Select up to 5 Noun Names: list box.

The Options Section allows the user to select the following:

- Up to seven ESCs from a drop-down list box.
  - Highlight the ESCs desired from the list.
- An APL prefix from a list box, or An APL suffix from a list box.
  - Select a Prefix or Suffix from the Select Prefix/Suffix drop-down list box and

click the Get Data button. Highlight the Prefix/Suffix option desired from the resultant list (Figure 4.5).

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---

**Component Characteristic File - Equipment Commonality Process** [CCF PROCESS](#) [HEDRS HOME](#)

**Instructions**

1. Select **EC** from first selection group
2. Click **Get LAPL**
3. Select **LAPL** - and/or -
4. Select **Noun Names**(up to 5) from second selection group
5. Optionally select **ESC**(up to 7) and **PREFIX / SUFFIX** from options selection group
6. For **PREFIX / SUFFIX**
  - a. Select **PREFIX** -or- **SUFFIX**
  - b. Click **Get Data**
  - c. Select a value from the list.
10. To get Line information click **Next** or click **Query** for results.

**First Selection**

EC:

**Second Selection**

Please select an LAPL or up to 5 Noun Names

LAPL:

**AND / OR**

Select up to 5 Noun Names:

- SELECT-
- 88-001 - VALVE
- 88-001 - VALVE B
- 88-001 - VALVE B ANL
- 88-001 - VALVE B CHK

**Options**

ESC:(up to 7)

- None-
- \*
- A
- B
- C
- F
- G

Select Prefix or Suffix:

PREFIX

- None-
- L - LSD-41 Class
- M - Military Sealift Command
- N - Military Sealift Command
- T - Trident Class

---

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Phone : (207) 438-1690 [Email Technical Support](#)  
Wednesday, 27<sup>th</sup> June, 2012

**Figure 4.5**

Once an EC, a LAPL, or Noun Name(s), and optionally ESCs, APL Prefix or Suffix are selected for criteria, two options are possible. The user can click the “Next” button to select additional criteria to continue narrowing the search. Each subsequent “Next” screen is dependent upon the criteria selected prior to that screen. A sample first “Next” screen is displayed in Figure 4.6.

To execute the search based upon the criteria displayed in the screen, the user would click the “Query” button. Results from the Query execution are displayed in Figure 4.7.

**Component Characteristic File - Equipment Commonality Process**

[CCF PROCESS](#) [HEDRS HOME](#)

**Query Criteria**

EC: 88  
 LAPL: 88-038  
**NOUN LIST:**  
 ESC:  
 PREFIX / SUFFIX: PREFIX  
 PREFIX / SUFFIX VALUE: M

| Line #                      | Line Description   | Partial Match        | %   |
|-----------------------------|--|----------------------|-----|
| 01                          | CAGE   | <input type="text"/> | 100 |
| 02                          | NAVCOM PLAN  | <input type="text"/> | 8   |
| 03                          | MFR DRAWING  | <input type="text"/> | 90  |
| 04                          | MFR ID   | <input type="text"/> | 98  |
| 05                          | MILSPEC  | <input type="text"/> | 42  |
| 06                          | NSN  | <input type="text"/> | 71  |
| <input type="checkbox"/> 08 | ENVELOPE DIMENSIONS<br><i>(Pattern: ____ IN LG X ____ IN W X ____ IN HGH X ____ LBS)</i>                           |                      | 21  |
| <input type="checkbox"/> 09 | INTERFACE REQUIREMENTS<br><i>(Pattern: ____ V_PH_HZ ____ CFM ____ PSI ____ PSI ____ DEGF ____ LBS/HR ____ GPM)</i> |                      | 4   |
| <input type="checkbox"/> 10 | TYPE<br><i>(Pattern: ____)</i>   |                      | 99  |
| <input type="checkbox"/> 11 | SIZE<br><i>(Pattern: ____ INL/ ____ OTL/ ____ OTL/ ____ OTL)</i>   |                      | 94  |
| <input type="checkbox"/> 12 | PRESSURE RATING<br><i>(Pattern: ____ PSI)</i>  |                      | 80  |
| <input type="checkbox"/> 13 | TEMPERATURE RATING<br><i>(Pattern: ____ DEG F WKG X ____ DEG F OPN X ____ DEG F CLO)</i>                           |                      | 16  |
| <input type="checkbox"/> 14 | BODY MATERIAL<br><i>(Pattern: ____)</i>  |                      | 86  |
| <input type="checkbox"/> 15 | END CONNECTIONS<br><i>(Pattern: ____ INL X ____ OTL)</i>   |                      | 82  |
| <input type="checkbox"/> 16 | OPERATION<br><i>(Pattern: ____)</i>  |                      | 43  |
| <input type="checkbox"/> 17 | MEDIA<br><i>(Pattern: ____)</i>  |                      | 21  |
| <input type="checkbox"/> 18 | CAPACITY<br><i>(Pattern: ____ CFM/ ____ GPM/ ____ LBS/HR/ ____ TON)</i>  |                      | 1   |
| <input type="checkbox"/> 19 | FLOW STYLE<br><i>(Pattern: ____)</i>   |                      | 24  |
| <input type="checkbox"/> 20 | STEM TYPE<br><i>(Pattern: ____)</i>  |                      | 36  |
| <input type="checkbox"/> 21 | SEAT TYPE<br><i>(Pattern: ____)</i>  |                      | 43  |

**Figure 4.6**

| Component Characteristic File - Equipment Commonality Process - Results   |        |                     |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
|---|--------|---------------------|--------------------------------------|-------|----|-----|-----|----|----|-----|-----|-----------------------|------|-----|--------------|-------|------------------|------------------|--------|---------------------|
| <div style="display: flex; justify-content: center; gap: 10px;"> <input type="button" value="Print"/> <input type="button" value="Cancel"/> </div>  |        |                     |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr style="background-color: #000080; color: white;"> <th colspan="2">Query Criteria</th> </tr> </thead> <tbody> <tr> <td>EC:</td> <td>88</td> </tr> <tr> <td>LAPL:</td> <td>88-038</td> </tr> <tr> <td>NOUN LIST:</td> <td></td> </tr> </tbody> </table> |        |                     |                                      |       |    |     |     |    |    |     |     | Query Criteria        |      | EC: | 88           | LAPL: | 88-038           | NOUN LIST:       |        |                     |
| Query Criteria  |        |                     |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| EC:   | 88     |                     |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| LAPL:   | 88-038 |                     |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| NOUN LIST:  |        |                     |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td>Total no. of records:</td> <td colspan="2">2040</td> </tr> <tr> <td>Total APL's:</td> <td>2040</td> <td>Average PRPC: 61</td> </tr> <tr> <td>Total Fleet POP:</td> <td>160299</td> <td>Average NIIN Cnt: 7</td> </tr> </table>                           |        |                     |                                      |       |    |     |     |    |    |     |     | Total no. of records: | 2040 |     | Total APL's: | 2040  | Average PRPC: 61 | Total Fleet POP: | 160299 | Average NIIN Cnt: 7 |
| Total no. of records:   | 2040   |                     |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| Total APL's:  | 2040   | Average PRPC: 61    |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| Total Fleet POP:  | 160299 | Average NIIN Cnt: 7 |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <p>Data Download: <a href="#">Click here</a> to download data in Microsoft Excel format</p> <p>Data Download: <a href="#">Click here</a> to download data in XML format</p>   |        |                     |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <div style="display: flex; justify-content: center; gap: 5px;"> <span>«</span> <span>◀</span> <span style="border: 1px solid red; padding: 2px;">1</span> <span>2</span> <span>3</span> <span>4</span> <span>5</span> <span>6</span> <span>7</span> <span>▶</span> <span>»</span> </div>  |        |                     |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| ↓   | G      | N                   | Nomenclature                         | 94421 | 1  | 1   | 7   | 38 | TM | PMS | TRN | MFR                   | NVY  |     |              |       |                  |                  |        |                     |
| <a href="#">N990BPLM14</a>  | G      |                     | VALVE BTFL 8.000IPS PSI FLGE         | 94421 | 1  | 1   |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">N990ABAL19</a>  | P      |                     | VALVE BTFL 3.000IPS PSI FLGE         | 76588 | 1  | 1   |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000025X</a>  | G      |                     | VALVE BTFL 5.000IN PSI               | 53711 | 4  | 4   | 7   | 38 |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000091X</a>  | G      |                     | VALVE BTFL 8.000IN PSI               | 53711 | 5  | 30  | 20  | 38 |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000093</a>   | P      |                     | VALVE BTFL 6.000IN 150.0PSI CRS BLT  | 04613 | 2  | 2   | 147 | 1  |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000097</a>   | P      |                     | VALVE BTFL 8.000IPS 600.0PSI CRS BLT | 04613 | 2  | 3   | 90  | 13 |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000130</a>   | A      | N                   | VALVE BTFL 14.000IPS 15.0PSI CRS BLT | 66822 | 4  | 4   | 66  | 1  |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000260</a>   | G      |                     | VALVE BTFL 6.000IPS 150.0PSI         | 53711 | 4  | 22  | 157 | 34 |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000346</a>   | G      |                     | VALVE BTFL 5.000NPS 150.0PSI         | 53711 | 4  | 24  | 157 | 34 |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000472X</a>  | G      |                     | VALVE BTFL 6.000IN PSI               | 53711 | 5  | 5   | 8   | 40 |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000486</a>   | G      |                     | VALVE BTFL 8.000IPS 150.0PSI         | 53711 | 4  | 10  | 15  | 34 |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000544</a>   | A      | Y                   | VALVE BTFL 10.000IPS 150.0PSI        | 04613 | 10 | 73  | 96  | 2  |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000545</a>   | A      | Y                   | VALVE BTFL 12.000IPS 150.0PSI        | 04613 | 3  | 51  | 42  | 2  | X  |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000546</a>   | A      | Y                   | VALVE BTFL 8.000IPS 150.0PSI CRS BLT | 04613 | 48 | 294 | 51  | 2  | X  |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <a href="#">88A000547</a>   | A      | Y                   | VALVE BTFL 6.000IPS 150.0PSI         | 04613 | 57 | 399 | 37  | 2  |    |     |     |                       |      |     |              |       |                  |                  |        |                     |
| <div style="display: flex; justify-content: center; gap: 5px;"> <span>«</span> <span>◀</span> <span style="border: 1px solid red; padding: 2px;">1</span> <span>2</span> <span>3</span> <span>4</span> <span>5</span> <span>6</span> <span>7</span> <span>▶</span> <span>»</span> </div>  |        |                     |                                      |       |    |     |     |    |    |     |     |                       |      |     |              |       |                  |                  |        |                     |

**Figure 4.7**

## 4.2 CCF Process - Line(s) Selection

The Line(s) Selection (Figure 4.8) tab is the second step in the process of creating a query of the CCF database. From this page the user can further refine the query. The query criteria shown just below the tabs, contains the current criteria for the query. Below that are all of the data fields (Line #s and Line Description) that can be searched within the selected LAPL or EC when noun names are selected.

| Component Characteristic File - Equipment Commonality Process   |   |                      |  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
|---|---|----------------------|--|----------------|--|-----|---|-------|--------|------------|--|------|--|------------------|--|------------------------|--|
|   |   |                      | <a href="#">CCF PROCESS</a> <a href="#">HEDRS HOME</a> |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <table border="1" style="margin: auto;"> <thead> <tr> <th colspan="2">Query Criteria</th> </tr> </thead> <tbody> <tr> <td>EC:</td> <td>1</td> </tr> <tr> <td>LAPL:</td> <td>01-044</td> </tr> <tr> <td>NOUN LIST:</td> <td></td> </tr> <tr> <td>ESC:</td> <td></td> </tr> <tr> <td>PREFIX / SUFFIX:</td> <td></td> </tr> <tr> <td>PREFIX / SUFFIX VALUE:</td> <td></td> </tr> </tbody> </table> |   |                      |  | Query Criteria |  | EC: | 1 | LAPL: | 01-044 | NOUN LIST: |  | ESC: |  | PREFIX / SUFFIX: |  | PREFIX / SUFFIX VALUE: |  |
| Query Criteria  |   |                      |  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| EC:   | 1   |                      |  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| LAPL:   | 01-044  |                      |  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| NOUN LIST:  |   |                      |  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| ESC:  |   |                      |  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| PREFIX / SUFFIX:  |   |                      |  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| PREFIX / SUFFIX VALUE:  |   |                      |  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| Line #  | Line Description  | Partial Match        | %  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| D1  | CAGE  | <input type="text"/> | 100  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| D2  | NAVCOM PLAN   | <input type="text"/> | 25   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| D3  | MFR DRAWING   | <input type="text"/> | 100  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| D4  | MFR ID  | <input type="text"/> | 100  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| D5  | MILSPEC   | <input type="text"/> | 63   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| D6  | NSN   | <input type="text"/> | 75   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | ENVELOPE DIMENSIONS<br>(Pattern: ____ IN LG X ____ IN WX ____ IN HGH X ____ LBS)                  |                      | 38   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | INTERFACE REQUIREMENTS<br>(Pattern: ____ V_PH_HZ ____ CFM_PSI ____ PSI_DEGF ____ LBS/HR ____ GPM) |                      | 0  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input checked="" type="checkbox"/>   | TYPE<br>(Pattern: ____)   |                      | 75   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input checked="" type="checkbox"/>   | CAPACITY<br>(Pattern: ____ GPM)   |                      | 100  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | INTAKE<br>(Pattern: ____ IN ID X ____ IN OD)  |                      | 50   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | INTAKE CONNECTION TYPE<br>(Pattern: ____)   |                      | 0  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | DISCHARGE<br>(Pattern: ____ IN ID X ____ IN OD)   |                      | 50   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | DISCHARGE CONNECTION TYPE<br>(Pattern: ____)  |                      | 0  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | SUCTION LIFT<br>(Pattern: ____ FT)  |                      | 25   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | TOTAL DYNAMIC HEAD<br>(Pattern: ____ PSI)   |                      | 88   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | ROTATION<br>(Pattern: ____)   |                      | 38   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | MOUNTING<br>(Pattern: ____)   |                      | 75   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | TYPE DRIVE<br>(Pattern: ____)   |                      | 100  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | POWER RATING<br>(Pattern: ____ BHP)   |                      | 38   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | SPEED<br>(Pattern: ____ RPM)  |                      | 88   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | MEDIA<br>(Pattern: ____)  |                      | 25   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | MATERIAL<br>(Pattern: ____)   |                      | 13   |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="checkbox"/>  | NOISE<br>(Pattern: ____ DCBL AIR-BORNE X ____ DCBL STRU-BORNE)                                    |                      | 0  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |
| <input type="button" value="Previous"/> <input type="button" value="Query"/> <input type="button" value="Next"/>  |   |                      |  |                |  |     |   |       |        |            |  |      |  |                  |  |                        |  |

Figure 4.8

The percentage of APLs for which data is available for the selected line characteristic is shown in the right-hand column.

The following functions are available from this tab:

- a. Select up to six lines using the check boxes
- b. Partial match on standard lines 01 through 06

Once line selection is complete, click the Next button to select additional search criteria to narrow the search; click the Query button to execute the current search; or click the Previous button to go back to the previous page.

### **4.3 CCF Process - Exact or Partial Match**

To search for records that have an exact match of data in line 01 to 06 enter the criteria. Entering 15852 in line 01 CAGE will limit results to only those records that have a CAGE = 15852.

To search for records with a partial match of data in line 01 to 06 enter the known data preceded or followed by a %, the % is similar in use to a wild card. Entering 1585% in line 01 CAGE will filter out all records that do not contain the 1585 from the search. Any matches found would contain 1585 in the CAGE, i.e. 15851, 15852 ... and 1585A, 1585B, etc.

Click the Query button to view results, or the Next button to continue refining the search with any additional selected lines that are checked. Clicking the Previous button will navigate to the previous screen.

Do not search using special characters, such as a -, use only letters and numbers.

### **4.4 CCF Process - Select Line #s**

A line is selected by clicking check box to the left of the line. When a line is selected the query will be set to retrieve equipment that conforms to the currently selected criteria and data is available for the selected line characteristic. This process allows the selection of up to six lines.

### **4.5 CCF Process - Line Number**

The CCF Process Lines(s) Data is the last step in creating a CCF line query (Figure 4.9). This page contains the currently selected criteria for the query and a data entry form for each line the user has previously selected. Shown in the data entry form, is a line number, definition of the line, and the percentage of APLs for which data is available for the selected line characteristic. A Data Entry Specification and Example are also present. There are two types of data entry for line number searches:

- a. Exact match valid on both alphabetic and numeric characters.
- b. Range searching which is valid on numeric items with upper and lower limits.

Once the line data criteria is entered, click the Query button to execute the search or Previous button to go back to the previous page.

| Component Characteristic File - Equipment Commonality Process   |  |                |   |              |            |      |                  |                        |
|---|--|----------------|---|--------------|------------|------|------------------|------------------------|
| <a href="#">CCF PROCESS</a> <a href="#">HEDRS HOME</a>  |  |                |   |              |            |      |                  |                        |
| <table border="1"> <thead> <tr> <th>Query Criteria</th> </tr> </thead> <tbody> <tr> <td>EC: 1</td> </tr> <tr> <td>LAPL: 01-044</td> </tr> <tr> <td>NOUN LIST:</td> </tr> <tr> <td>ESC:</td> </tr> <tr> <td>PREFIX / SUFFIX:</td> </tr> <tr> <td>PREFIX / SUFFIX VALUE:</td> </tr> </tbody> </table>   |  | Query Criteria | EC: 1                                     | LAPL: 01-044 | NOUN LIST: | ESC: | PREFIX / SUFFIX: | PREFIX / SUFFIX VALUE: |
| Query Criteria  |  |                |   |              |            |      |                  |                        |
| EC: 1   |  |                |   |              |            |      |                  |                        |
| LAPL: 01-044  |  |                |   |              |            |      |                  |                        |
| NOUN LIST:  |  |                |   |              |            |      |                  |                        |
| ESC:  |  |                |   |              |            |      |                  |                        |
| PREFIX / SUFFIX:  |  |                |   |              |            |      |                  |                        |
| PREFIX / SUFFIX VALUE:  |  |                |   |              |            |      |                  |                        |
| <b>Line Number: 10 - TYPE</b><br>% of APL's: 75   |  |                |   |              |            |      |                  |                        |
| <b>Definition:</b><br>PER APPLICABLE MILITARY SPECIFICATION INDICATE THE MECHANICAL PRINCIPLE USED TO ACHIEVE MOVEMENT OF THE FLUID. MULTIPLE ENTRY: (1) STAGE QUANTITY - NO. OF IMPELLERS - (EX. SGL, DBL). (2) IMPELLER SUCTION TYPE - (EX. SGL, DBL). (3) VELOCITY CONVERSION TYPE - (EX. VOLUTE, DIFFUSER VANES, PERIPHERAL). EXAMPLES INCLUDED BUT ARE NOT LIMITED TO SGL STG SGL SUCT VLT, DBL STG DBL SUCT VLT. MAXIMUM THIRTY (30) CHARACTERS. LEFT JUSTIFY. EXAMPLE: |  |                |   |              |            |      |                  |                        |
| <b>Example:</b><br>DBL STG SGL SUCT VLT   |  |                |   |              |            |      |                  |                        |
| <table border="1"> <thead> <tr> <th>Values</th> </tr> </thead> <tbody> <tr> <td>Field Value: SGL STG SGL SUCT -</td> </tr> </tbody> </table>  |  | Values         | Field Value: SGL STG SGL SUCT -           |              |            |      |                  |                        |
| Values  |  |                |   |              |            |      |                  |                        |
| Field Value: SGL STG SGL SUCT -   |  |                |   |              |            |      |                  |                        |
| <b>Line Number: 11 CAPACITY</b><br>% of APL's: 100  |  |                |   |              |            |      |                  |                        |
| <b>Definition:</b><br>MAXIMUM RATED DISCHARGE FLOW RATE DELIVERED BY THE PUMP IN GPM (GALLONS PER MINUTE) WITH FRACTIONAL PARTS CONVERTED TO DECIMALS, MAXIMUM EIGHT (8) CHARACTERS WITH DECIMAL BETWEEN THE FIFTH (5TH) AND SIXTH (6TH) POSITIONS. ENTER WHOLE NUMBER RIGHT JUSTIFIED IN RELATION TO DECIMAL POINT. ENTER FRACTIONAL NUMBER LEFT JUSTIFIED THREE POSITIONS OR IF NO FRACTIONAL NUMBER, ZERO FILL. EXAMPLE:   |  |                |   |              |            |      |                  |                        |
| <b>Example:</b><br>00250.000  |  |                |   |              |            |      |                  |                        |
| <table border="1"> <thead> <tr> <th>Values</th> </tr> </thead> <tbody> <tr> <td>Lower limit: 0 GPM Upper limit: 99999 GPM</td> </tr> </tbody> </table>  |  | Values         | Lower limit: 0 GPM Upper limit: 99999 GPM |              |            |      |                  |                        |
| Values  |  |                |   |              |            |      |                  |                        |
| Lower limit: 0 GPM Upper limit: 99999 GPM   |  |                |   |              |            |      |                  |                        |
| <input type="button" value="Previous"/> <input type="button" value="Query"/>  |  |                |   |              |            |      |                  |                        |

Figure 4.9

#### 4.6 CCF Process - Values

Enter the data for this line in the exact format described in the definition and example. When entering data into the upper limit, be sure that it contains a number that is more than the lower limit.

#### 4.7 CCF Process - Results Screen

The Component Characteristic File – Equipment Commonality Process Results (Figure 4.10) screen will display the Query Criteria that was selected.

| Component Characteristic File - Equipment Commonality Process - Results   |                   |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
|---|-------------------|------|--|-----------------------|----------|---------|------|----------|----|-----|-----|-----|-----|-----------------------|----|-----|---|--------------|---------------|------------|-----------------|------------------|-------------------|--|--|
| <input type="button" value="Print"/> <input type="button" value="Cancel"/>  |                   |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| <table border="1"> <thead> <tr> <th colspan="2">Query Criteria</th> </tr> </thead> <tbody> <tr> <td>EC:</td> <td>1</td> </tr> <tr> <td>LAPL:</td> <td>01-043</td> </tr> <tr> <td>NOUN LIST:</td> <td>PUMP,PUMP CTFGL</td> </tr> </tbody> </table>                                     |                   |      |  |                       |          |         |      |          |    |     |     |     |     | Query Criteria        |    | EC: | 1 | LAPL:        | 01-043        | NOUN LIST: | PUMP,PUMP CTFGL |                  |                   |  |  |
| Query Criteria  |                   |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| EC:   | 1                 |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| LAPL:   | 01-043            |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| NOUN LIST:  | PUMP,PUMP CTFGL   |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| <table border="1"> <tbody> <tr> <td>Total no. of records:</td> <td colspan="3">83</td> </tr> <tr> <td>Total APL's:</td> <td>Average PRPC:</td> <td colspan="2">201</td> </tr> <tr> <td>Total Fleet POP:</td> <td>Average NIIN Cnt:</td> <td colspan="2"></td> </tr> </tbody> </table> |                   |      |  |                       |          |         |      |          |    |     |     |     |     | Total no. of records: | 83 |     |   | Total APL's: | Average PRPC: | 201        |                 | Total Fleet POP: | Average NIIN Cnt: |  |  |
| Total no. of records:   | 83                |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| Total APL's:  | Average PRPC:     | 201  |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| Total Fleet POP:  | Average NIIN Cnt: |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| Data Download: Click <a href="#">here</a> to download data in Microsoft Excel format  |                   |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| Data Download: Click <a href="#">here</a> to download data in XML format  |                   |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| <input type="button" value="←"/> <input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="5"/> <input type="button" value="6"/> <input type="button" value="→"/>               |                   |      |  |                       |          |         |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| APL ↓   | ESC               | COTS | Nomenclature                               | CAGE                  | Ship Pop | Flt Pop | PRPC | Niin Cnt | TM | PMS | TRN | MFR | NVY |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| <a href="#">01A030084</a>   | A                 | Y    | PUMP 328.000GPM PSI 1800RPM GR             | <a href="#">11083</a> | 5        | 5       | 1    | 13       |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| <a href="#">M016021559</a>  | A                 | N    | PUMP CTFGL 425.000GPM 39.00PSI 1775RPM MCC | <a href="#">63857</a> | 2        | 4       |      |          |    |     |     |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| <a href="#">M016021570</a>  | A                 | N    | PUMP CTFGL 190.000GPM 115.00PSI 1775RPM MD | <a href="#">63857</a> | 2        | 2       |      |          | X  |     | X   |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| <a href="#">M016021572</a>  | A                 | N    | PUMP CTFGL 650.000GPM 45.00PSI 1750RPM MD  | <a href="#">63857</a> | 2        | 4       |      |          | X  |     | X   |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| <a href="#">M016021574</a>  | A                 | N    | PUMP CTFGL 50.000GPM 80.00PSI 3500RPM MCC  | <a href="#">63857</a> | 2        | 4       |      |          | X  |     | X   |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| <a href="#">M016021575</a>  | A                 | N    | PUMP CTFGL 350.000GPM 150.00PSI 1775RPM MD | <a href="#">63857</a> | 2        | 4       |      |          | X  |     | X   |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |
| <a href="#">M016021577</a>  | A                 | N    | PUMP CTFGL 200.000GPM 65.00PSI 3560RPM MCC | <a href="#">63857</a> | 15       | 45      |      |          | X  |     | X   |     |     |                       |    |     |   |              |               |            |                 |                  |                   |  |  |

**Figure 4.10**

The results display the following information for each record that is returned:

- a. **APL:** Allowance Parts List
- b. **ESC:** Engineering Support Code
- c. **COTS:** Whether or not the equipment is Commercial Off-the-Shelf.
- d. **NOMENCLATURE:** Name of the material
- e. **CAGE:** Contractor and Government Entity
- f. **SHIP POP:** Ship Population – The number of Ships in which equipment are installed
- g. **FLT POP:** Fleet Population – The total installations of the equipment in the Fleet
- h. **PRPC:** Projected Repair Parts Cost – The annual average cost of parts
- i. **NIIN CNT:** The number of NIINs that are contained in the results
- j. **TM:** Technical Manual – Marked if the Navy maintains a tech manual for the equipment

- k. **PMS:** Planned Maintenance System – This column is marked if the Navy has developed a planned maintenance system for the equipment
- l. **TRN:** Training – Marked if the Navy has a training course for the equipment.
- m. **MFR:** Manufacturer Drawing – This column is marked if the Navy has access to the manufacturers drawing.
- n. **NVY:** Navy Drawing – Marked if the Navy has access to the Navy drawing.

Columns that have an arrow next to the column's name can be sorted by clicking the arrow.

The user can also click on a selected APL to view additional information for the equipment (Figure 4.11).

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[Ship Data](#) | [CCF/ILS Data](#) | [CAGE/MFR Cross Ref](#)

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| Ship Data                            |       |            |   |
|--------------------------------------|-------|------------|---|
| APL: 88A000091X                      |       |            |   |
| Nomenclature: VALVE BTFL 8.000IN PSI |       |            |   |
| Ship POP: 5                          |       |            |   |
| Fleet POP: 30                        |       |            |   |
| ESC: G                               |       |            |   |
| ↓                                    | SAC   | SWAB/ESWBS |   |
| SSN774                               | 0AUZI | 25541      | 6 |
| SSN775                               | 0AUZI | 25541      | 6 |
| SSN776                               | 0AUZI | 25541      | 6 |
| SSN778                               | 0AUZI | 25541      | 6 |
| SSN779                               | 0AUZI | 25541      | 6 |

PDREP NAVSEALOGCENDET PORTSMOUTH, NH. Version : 5.0.8, Build Date : 03/09/2012  
 Phone : (207) 438-1690 [Email Technical Support](#)  
 Wednesday, 27<sup>th</sup> June, 2012

**Figure 4.11**

This screen has the following three Tab options.

- o. **Ship Data:** Displays a list of all ships on which the equipment is installed.
- p. **CCF/ILS Data:** Displays the full Component Characteristics File data for the equipment
- q. **CAGE/MFR Cross Ref:** Displays data for the equipment's manufacturer.

The user can now select the Ship Data tab (Figure 4.11), CCF/ILS (Figure 4.12), or CAGE/MFR Cross Ref (Figure 4.13). See each tab for additional information for the selected APL.

[Ship Data](#) | **CCF/ILS Data** | [CAGE/MFR Cross Ref](#)

| CCF / ILS Data         |  |
|------------------------|--|
| <b>APL:</b> 88A000091X | <b>Nomenclature:</b> VALVE BTFL 8.000IN PSI              |
| <b>ESC:</b> G          | <b>Best Value:</b>                                       |
| <b>CAGE:</b> 53711     | <b>Mfr. Name:</b> NAVAL SEA SYSTEMS COMMAND              |
| <b>LAPL:</b> 88-038    | <b>Mfr. DWG:</b> 803-7106793-8-OA-1(SE)                  |
| <b>Training:</b>       | <b>Tech. Manual:</b>                                     |
| <b>COTS:</b>           | <b>PRPC:</b> 20  |
|                        | <b>NAVY DWG:</b>   |
|                        | <b>Planned Maint. Sched:</b>                             |
|                        | <b>NIIN Cnt:</b> 38                                      |
| Line                   | Characteristic / CCF Data                                |
| 03                     | <b>MFR DWG :</b><br>803-7106793-8-OA-1(SE) -             |
| 04                     | <b>MFR ID :</b><br>-                                     |
| 06                     | <b>NSN :</b><br>7H4820-01-470-6389 -                     |
| 10                     | <b>TYPE :</b><br>ILN -                                   |
| 11                     | <b>SIZE :</b><br>08.000 -                                |
| 8                      | <b>ENVELOPE DIMENSIONS :</b><br>000.00 - IN LG X         |
|                        | <b>Remarks:</b><br>OPERATOR WEIGHT-34LBS,CCF DATE -04 00 |

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**Figure 4.12**

[Ship Data](#) | [CCF/ILS Data](#) | **CAGE/MFR Cross Ref**

| CAGE Results                                   |                          |
|--|--------------------------|
| <b>CAGE:</b> 53711                             | <b>Replace CAGE:</b> N/A |
| <b>Manufacturer:</b> NAVAL SEA SYSTEMS COMMAND |                          |
| <b>Division:</b> N/A                           | <b>Type Code:</b> A      |
| <b>Points of Contact:</b> N/A N/A              |                          |
| <b>Address1:</b> 1333 ISAAC HULL AVE S E       |                          |
| <b>Address2:</b> N/A                           |                          |
| <b>City / State:</b> WASHINGTON NAVY YARD, DC  |                          |
| <b>Country:</b> UNITED STATES                  |                          |
| <b>Phone:</b> (202) 781-0000                   | <b>Fax:</b> N/A          |
| <b>Email:</b> N/A                              | <b>Website:</b> N/A      |

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**Figure 4.13**

## 5 DIMINISHING MANUFACTURING SOURCES/MATERIAL SHORTAGES (DMSMS)

Diminishing Manufacturing Sources and Material Shortages (DMSMS) is a rapidly growing problem for the military. For the Navy, the net result has been degradation in the fleet's state of readiness, availability and the useful life of weapon systems. Navy efforts are emphasizing the establishment of policy and procedures that provide guidance for effectively managing alternative solutions to problem DMSMS equipment.

NAVSEALOGCEN has taken an active role in these efforts. In order to have a viable DMSMS program, it is essential to collect and organize information on all DMSMS and foreign source dependent equipment that are already installed on Navy ships, and provide a means to identify potential substitute equipment from the other existing assets that are in use by the fleet and are still in production by the OEM to strengthen the defense industrial base that is presently in place. To satisfy these requirements, HEDRS includes a DMSMS processing capability to identify DMSMS components and their applications for individual hull numbers.

### Note

**DMSMS processing will provide the user with all obsolete, obsolescent, foreign source dependent and otherwise unsupported HM&E equipment installed on a given hull. Engineering support (ESC) codes B, C, F, L, T, and Y apply. The DMSMS equipment identified by these processes implies that the original equipment manufacturer (OEM) no longer manufactures the end item, can no longer be located, or is a foreign company. It does not reflect the status of piece part support in the supply system to maintain or repair this equipment.**

### 5.1 DMSMS Process - Query Selection

To build a DMSMS query (Figure 5.1), select a Hull from the drop-down list box. (i.e. AS-40) Click on "Query" to query the Hull that has been selected.

The screenshot shows a web application interface for the DMSMS Process. At the top, there is a navigation bar with links: Home, Feedback, Links, User Profile, PDREP Manuals, and a user profile section for 'User: TEST PLAN' with a 'logout' link. Below the navigation bar is a menu with tabs: App Process, Best Value Process, CCF Process, DMSMS Process (highlighted), EL Process, HC Process, Utilities, and ILS Cost Calc. The main content area is titled 'Diminishing Manufacturing Sources and Material Shortages' and contains the following instructions: '(M) denotes a mandatory field', '1. Select a HULL', '2. To view summary select the Top # of occurrences (optional)', and '3. Click Query'. There are two dropdown menus: '(M) HULL: -SELECT-' and 'Select the Top # of Occurrences: -Select-'. A 'Query' button is located below the second dropdown menu. At the bottom of the page, there is a footer with the text: 'PDREP NAVSEALOGCENDET PORTSMOUTH, NH. Version : 5.0.8, Build Date : 03/09/2012', 'Phone : (207) 438-1690 Email Technical Support', and 'Wednesday, 27<sup>th</sup> June, 2012'.

Figure 5.1

## 5.2 DMSMS Process -Result Screen

When the Diminishing Manufacturing Sources and Material Shortages Process result screen (Figure 10) is displayed, processing has been completed. The DMSMS Processing results screen will display the Query Criteria that was selected and the Total Number of Occurrences (APLs) found (Figure 4.2). Three set of results are returned for APLs, LAPL, and SAC. Each result set can be downloaded to Excel or XML files by clicking the related “here” link.

| Query Criteria |       |
|----------------|-------|
| HULL:          | LPD17 |
| OCCURENCE:     | 5     |

# of rows: 5

Data Download: Click [here](#) to download data in Microsoft Excel format  
Data Download: Click [here](#) to download data in XML format

| APL       | Nomenclature                               | QTY |
|-----------|--|-----|
| 649990064 | FIRE EXTINGUISHER PRTL                     | 199 |
| 48A030044 | FILTER REGR                                | 105 |
| 64A020023 | FIRE EXTINGUISHER PRTL PKP                 | 57  |
| 38A010036 | INDICATOR TK LVL OTO                       | 52  |
| 131400126 | TRANSFORMER PWR STPDN 1000VA INP 450AC 1PH | 48  |

# of rows: 5

Data Download: Click [here](#) to download data in Microsoft Excel format  
Data Download: Click [here](#) to download data in XML format

| LAPL   | LAPL Description   | QTY |
|--------|--|-----|
| 64-024 | FIRE EXTINGUISHER - CARBON DIOXIDE; PORTABLE, HAND OPERATED  | 199 |
| 48-002 | FILTER - FLUID PRESSURE; AIR, OIL, SOLVENTS, WATER, ETC.   | 156 |
| 13-013 | TRANSFORMER; REPARABLE AND NON-REPARABLE   | 111 |
| 64-017 | FIRE EXTINGUISHER - PORTABLE; A DUAL UNIT UTILIZING AN AQUEOUS FILM FORMING FOAM (AFFF) FIRE FIGHTING AGENT IN CONJUNCTION WITH A DRY CHEMICAL AGENT | 57  |
| 38-022 | INDICATOR - LIQUID LEVEL (GEMS); INCLUDES RECEIVER OR MULTI-RECEIVER BOX (PANEL) AND TRANSMITTERS FOR MAGNETIC FLOAT TYPE SYSTEMS (A)                | 52  |

# of rows: 5

Data Download: Click [here](#) to download data in Microsoft Excel format  
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| SAC   | SAD                                      | QTY |
|-------|--|-----|
| 0ABEE | FIRE FIGHTING-EXTINGUISHER               | 199 |
| 0AGWY | AIR SUPPLY-SHIPS SERVICE                 | 124 |
| 0AAQD | ELECTRIC POWER DISTRIBUTION              | 104 |
| 0AZSN | FIRE FIGHTING-AFFF/PKP SYSTEM            | 57  |
| 0AMUP | INSTRUMENTS-TANK LEVEL INDICATING SYSTEM | 43  |

**Figure 5.2**

Columns that have an arrow next to the column's name can be sorted by clicking the arrow.

The user can also click on a selected APL to view additional information for the equipment. This screen (Figure 5.3) will have the following three Tab options:

- CCF/ILS Data - Displays the full Component Characteristics File data for the equipment
- Ship Data - Displays a list of all ships on which the equipment is installed.
- CAGE/MFR Cross Ref. - Displays data for the equipment’s manufacturer.

The user can now select the Ship Data tab (Figure 5.4), CCF/ILS (Figure 5.3), or CAGE/MFR Cross Ref (Figure 5.5). See each tab for additional information for the selected APL.

| <a href="#">Ship Data</a>  | <b>CCF/ILS Data</b>  | <a href="#">CAGE/MFR Cross Ref</a>   |
|--|--|--|
| <input type="button" value="Print"/> <input type="button" value="Cancel"/>   |  |  |
| CCF / ILS Data   |  |  |
| <b>APL:</b> 01A990040<br><b>ESC:</b> T<br><b>CAGE:</b> 61178   |  | <b>Nomenclature:</b> PUMP GPM PSI 1725RPM MTRDN<br><b>Best Value:</b><br><b>Mfr. Name:</b> TUTHILL CORPORATION |
| <b>LAPL:</b> 01-008<br><b>Training:</b><br><b>COTS:</b>  | <b>Mfr. DWG:</b> 21960-D<br><b>Tech. Manual:</b><br><b>PRPC:</b> 551 | <b>NAVY DWG:</b><br><b>Planned Maint. Sched:</b><br><b>NIIN Cnt:</b> 1   |
| Line   | Characteristic / CCF Data  |  |
| 03   | MFR DWG :<br>21960-D -   |  |
| 04   | MFR ID :<br>21960-D -  |  |
| 06   | NSN :<br>1H4320-LL-H55-6850BG -                                      |  |
| 18   | ROTATION :<br>CW/CCW -   |  |
| 20   | TYPE DRIVE :<br>MTRDN -  |  |
| 21   | POWER RATING :<br>0000.33 - BHP                                      |  |
| 22   | SPEED :<br>01725 - RPM   |  |
| <b>Remarks:</b><br>PROVISIONING LAPL-NSWCCD-SSES ENGINEERING REVIEW,PDCN-N8AFH9,TSA IS NSWCCD-SSES CODE 94522, POC IS D. BAKER,PA IS NAVICP-M CODE 05827, POC IS D. FERGUSON,NOTE:FASTENERS HAVE BEEN IDENTIFIED BY NSWCCD-SSES CODE,945 IAW NAVSEA LTR 4423 OPR:56W16/WW SER 56W1/101,OF 04 OCT 1991.,IDENTIFY THE FASTENERS FOR THIS COMPONENT AS REQUIRED,BY NSWCCD-SSES CODE 945 IAW NAVSEA LTR 4423 OPR:56W16/WW,NOTE: CLS CONTRACT IN NEGOTIATION 3/22/00,*ERP HAS IDENTIFIED NIIN LLH556850 AS END ITEM / D046D,CCF DATE -06 99 |  |  |

Figure 5.3

| <a href="#">Ship Data</a>   | <a href="#">CCF/ILS Data</a> | <a href="#">CAGE/MFR Cross Ref</a> |   |
|---|------------------------------|------------------------------------|---|
| <input type="button" value="Print"/> <input type="button" value="Cancel"/>  |                              |                                    |   |
| Ship Data   |                              |                                    |   |
| <b>APL:</b> 01A990040<br><b>Nomenclature:</b> PUMP GPM PSI 1725RPM MTRDN<br><b>Ship POP:</b> 54<br><b>Fleet POP:</b> 177<br><b>ESC:</b> T |                              |                                    |   |
| « ‹ 1 2 3 4 5 6 7 › »   |                              |                                    |   |
| ↓   | SAC                          | SWAB/ESWBS                         |   |
| CVN68   | 0AGGI                        | 51421                              | 1 |
| CVN68   | 0AGGM                        | 51425                              | 1 |
| CVN68   | 0AGGN                        | 51426                              | 1 |
| CVN68   | 0AGGP                        | 51427                              | 1 |
| CVN68   | 0AGRQ                        | 51428                              | 1 |
| CVN68   | 0ARBI                        | 51429                              | 1 |
| CVN68   | 0ARBJ                        | 5142A                              | 1 |
| CVN69   | 0AGGI                        | 51421                              | 1 |
| CVN69   | 0AGRQ                        | 51428                              | 1 |
| CVN69   | 0ARBI                        | 51429                              | 1 |
| « ‹ 1 2 3 4 5 6 7 › »   |                              |                                    |   |

Figure 5.4

[Ship Data](#) | [CCF/ILS Data](#) | **CAGE/MFR Cross Ref**

| CAGE Results                             |                                 |
|--|---------------------------------|
| <b>CAGE:</b> 61178                       | <b>Replace CAGE:</b> N/A        |
| <b>Manufacturer:</b> TUTHILL CORPORATION |                                 |
| <b>Division:</b> DBA TUTHILL PUMP GROUP  | <b>Type Code:</b> A             |
| <b>Points of Contact:</b> M. SENTORI     |                                 |
| <b>Address1:</b> 12500 S PULASKI RD      |                                 |
| <b>Address2:</b> N/A                     |                                 |
| <b>City / State:</b> ALSIP, IL           |                                 |
| <b>Country:</b> UNITED STATES            |                                 |
| <b>Phone:</b> (708) 389-2500             | <b>Fax:</b> (708) 389-2591      |
| <b>Email:</b> tuthillpump@tuthill.com    | <b>Website:</b> www.tuthill.com |

**Figure 5.5**

## 6 EQUIPMENT LIST (EL) PROCESS MODULE

The Equipment List Process modules basic function is to enable the user to identify supported and unsupported HM&E equipment that is installed in the Active Fleet. Clicking on the EL Process tab from the HEDRS module displays the Equipment List Process page (the Standard Design Process tab) by default (Figure 6.1). Section 6.1 provides a description of this tab.

The screenshot shows the 'Equipment List Process' page with the 'Standard Design Process' tab selected. The page includes a navigation bar with links for Home, Feedback, Links, User Profile, and PDREP Manuals, and a user profile section for 'User: TEST PLAN' with a 'logout' link. The main content area has a blue header with 'Equipment List Process' and a 'HEDRS HOME' link. Below the header, there is an 'Overview' section explaining the module's function, followed by 'Instructions' that list steps for selecting criteria and querying. The form contains a dropdown menu for '(M) Select a Criteria', a dropdown for 'EC', and a text input for 'Minimum Fleet Population'. A 'Query' button is located at the bottom right of the form.

Figure 6.1

The Special Application Equipment List tab displays the Equipment List Process page for Special Application Equipment (Figure 6.2). Section 6.2 provides a description of this tab.

The screenshot shows the 'Equipment List Process' page with the 'SAEL Processing' tab selected. The page layout is similar to Figure 6.1, but the 'Instructions' section is more detailed, including steps for selecting an EC, criteria, and adding criteria. The form includes a dropdown for '(M) EC', a dropdown for '(M) Select a Criteria', and dropdowns for 'HULL', 'CLASS', and 'Ship'. There are also text inputs for 'Minimum # of Ship(s)' and 'Quantity'. 'Add Criteria' and 'Query' buttons are located at the bottom right of the form.

Figure 6.2

## 6.1 EL Process - Standard Design Process

Users can Select a Criteria based SEL, UEL or Standard Design Component. An EC and Minimum Fleet Population are required to search using SEL and UEL. There is a different result screen for the Standard Design Component, SEL, and UEL searches. The Standard Design Component criteria is illustrated in Figure 6.3 and results in Figure 6.4.

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Standard Design Process
[SAEL Processing](#)

Equipment List Process

[HEDRS HOME](#)

**Overview**  
The Equipment List Process enables the user to identify supported and unsupported HM&E equipment installed in the Active Fleet

**Instructions**  
(M) denotes a mandatory field

1. Select a **Criteria**
2. For **SEL** and **UEL** processing,
  - a. Select an **EC** and enter minimum **Fleet** population
3. Click **Query**

(M) Select a Criteria:

EC:

Minimum Fleet Population:

Figure 6.3

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Equipment List Process-Standard Design

| Query Criteria            |   |
|---------------------------|---|
| EC:                       | 0 |
| Minimum Fleet Population: |   |
| Total no. of records: 36  |   |

Data Download: [Click here](#) to download data in Microsoft Excel format  
Data Download: [Click here](#) to download data in XML format

| ↓                         | Nomenclature                                 |             | NIIN CNT |
|---------------------------|--|-------------|----------|
| <a href="#">017600005</a> | PUMP UNIT PRTL 250.000GPM PSI                | 01-186-3377 |          |
| <a href="#">018880292</a> | PUMP CTFGL 750.000GPM 125.00PSI 3600RPM MCC  | 01-227-4922 |          |
| <a href="#">018880293</a> | PUMP CTFGL 750.000GPM 150.00PSI 3600RPM MCC  | 01-227-4923 | 1247     |
| <a href="#">018880294</a> | PUMP CTFGL 900.000GPM 125.00PSI 3600RPM MCC  | 01-227-4924 |          |
| <a href="#">018880295</a> | PUMP CTFGL 1000.000GPM 125.00PSI 3600RPM MCC | 01-227-6925 | 1666     |
| <a href="#">018880296</a> | PUMP CTFGL 1000.000GPM 150.00PSI 3600RPM MCC | 01-227-4925 | 1620     |
| <a href="#">018880297</a> | PUMP CTFGL 1000.000GPM 175.00PSI 3600RPM MCC | 01-227-4926 | 1284     |
| <a href="#">018880298</a> | PUMP CTFGL 900.000GPM 125.00PSI 3600RPM MCC  | 01-227-4927 |          |
| <a href="#">018880299</a> | PUMP CTFGL 1000.000GPM 125.00PSI 3600RPM MCC | 01-227-4928 |          |
| <a href="#">330510001</a> | AIR CONDITIONER 90000BTU/HR440AC 3PH 60HZ    | 01-261-6693 | 1305     |
| <a href="#">330510002</a> | AIR CONDITIONER 36000BTU/HR440AC 3PH 60HZ    | 01-284-5074 | 604      |
| <a href="#">330510003</a> | AIR CONDITIONER 60000BTU/HR440AC 3PH 60HZ    | 01-284-5075 | 672      |
| <a href="#">887005398</a> | VALVE ANL .250IPS 1500.0PSI SWLDG            | 01-145-9226 | 1        |
| <a href="#">887005399</a> | VALVE ANL .500IPS 1500.0PSI SWLDG            | 01-145-9225 | 31       |
| <a href="#">887005400</a> | VALVE ANL .750IPS 1500.0PSI SWLDG            | 01-142-8699 | 9        |

Figure 6.4

The SEL Processing criteria is illustrated in Figure 6.5 and results in Figure 6.6.

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Standard Design Process | SAEL Processing

### Equipment List Process

[HEDRS HOME](#)

**Overview**  
The Equipment List Process enables the user to identify supported and unsupported HM&E equipment installed in the Active Fleet

**Instructions**  
**(M)** denotes a mandatory field  
1. Select a **Criteria**  
2. For **SEL** and **UEL** processing,  
    a. Select an **EC** and enter minimum **Fleet** population  
3. Click **Query**

(M) Select a Criteria:

EC:

Minimum Fleet Population:

---

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**Figure 6.5**

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### Equipment List Process-Standard Design

| Query Criteria            |     |
|---------------------------|-----|
| EC:                       | 6   |
| Minimum Fleet Population: | 999 |

|                       |      |                   |   |
|-----------------------|------|-------------------|---|
| Total no. of records: | 1    |                   |   |
| Total APL's:          | 1    | Average PRPC:     | ? |
| Total Fleet POP:      | 1744 | Average NIIN Cnt: | ? |

Data Download: Click [here](#) to download data in Microsoft Excel format  
Data Download: Click [here](#) to download data in XML format

| ↓                          | A | N | Nomenclature                               | OAT62 | 18 | 1744 | TM | PMS | TRN | MFR | NVY |
|----------------------------|---|---|--|-------|----|------|----|-----|-----|-----|-----|
| <a href="#">T061900379</a> | A | N | COMPRESSOR RCIPG<br>HIP .216CFM@4500PSI MD | OAT62 | 18 | 1744 | X  |     | X   | X   |     |

---

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**Figure 6.6**

The UEL Processing criteria is illustrated in Figure 6.7 and results in Figure 6.8.



The results can be downloaded to Excel or XML files by clicking the here link.

The user can also click on a selected APL to view additional information for the equipment. This screen (Figure 6.9) will have the following three Tab options:

- CCF/ILS Data - Displays the full Component Characteristics File data for the equipment
- Ship Data - Displays a list of all ships on which the equipment is installed.
- CAGE/MFR Cross Ref. - Displays data for the equipment's manufacturer.

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[Ship Data](#) | [CCF/ILS Data](#) | [CAGE/MFR Cross Ref](#)

| Ship Data                        |       |            |   |
|----------------------------------|-------|------------|---|
| APL: 0602AM80A1                  |       |            |   |
| Nomenclature: COMPRESSOR AIR TON |       |            |   |
| Ship POP: 1                      |       |            |   |
| Fleet POP: 2                     |       |            |   |
| ESC: L                           |       |            |   |
| ↓                                | SAC   | SWAB/ESWBS |   |
| WAGB20                           | 51711 | 51711      | 1 |
| WAGB20                           | 51712 | 51712      | 1 |

---

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**Figure 6.9**

From this screen, the user can now select the Ship Data tab (Figure 6.9), CCF/ILS (Figure 6.10), or CAGE/MFR Cross Ref (Figure 6.11). See each tab for additional information for the selected APL.

[Ship Data](#) | 
 [CCF/ILS Data](#) | 
 [CAGE/MFR Cross Ref](#)

| CCF / ILS Data  |   |
|---|---|
| <b>APL:</b> 0602AM80A1  | <b>Nomenclature:</b> COMPRESSOR AIR TON |
| <b>ESC:</b> L   | <b>Best Value:</b>                      |
| <b>CAGE:</b> 02AM8  | <b>Mfr. Name:</b> KEWANEE BOILER MFG CO |
| <b>LAPL:</b> 06-005   | <b>Mfr. DWG:</b> 7-450-6-485-21-81      |
| <b>Training:</b>  | <b>Planned Maint. Sched:</b>            |
| <b>COTS:</b> D  | <b>PRPC:</b>                            |
|   | <b>NIIN Cnt:</b>                        |
| Line  | Characteristic / CCF Data               |
| 03  | <b>MFR DWG :</b><br>7-450-6-485-21-81 - |
| 04  | <b>MFR ID :</b><br>7-450-6-485-21-81 -  |
| 06  | <b>NSN :</b><br>-                       |
| 17  | <b>TYPE DRIVE :</b><br>MD -             |
| <b>Remarks:</b><br>PROVISIONING LAPL-06-01,TYPE-PISTON,CAPACITY-76 SCFM AT 100PSI,NO OF CYLINDERS-2,PCCN-RH1639,MAX PRESSURE-150 PSIG,NOTE: ITEM IS ASSIGNED TO AUXILIARY BOILERS.,DWG NO SEE TECH PUB,MPC A-D-7240 (420 WAGB),MPC A-W-7502 (420 WAGB),MPC A-W-7502,MPC A-S-7258 (420 WAGB),MPC A-S-7258,MPC A-M-7242,MPC A-M-2742 (420 WAGB),MPC A-D-7488 (420 WAGB),MPC A-D-7488,MPC A-C-7228 (420 WAGB),MPC A-C-7236,MPC A-C-7228,MPC A-C-7227 (420 WAGB),MPC A-C-7227,MPC A-A-7225 (420 WAGB),MPC A-A-7225,MPC A-A-7201 (420 WAGB),MPC A-A-7201,MPC A-D-7240,MPC A-C-7236 (420 WAGB),TECH MAN S9517-AY-MMC-010,CCF DATE-06/98 |   |

Figure 6.10

| CAGE Results                               |                          |
|--|--------------------------|
| <b>CAGE:</b> 02AM8                         | <b>Replace CAGE:</b> N/A |
| <b>Manufacturer:</b> KEWANEE BOILER MFG CO |                          |
| <b>Division:</b> N/A                       | <b>Type Code:</b> A      |
| <b>Points of Contact:</b> N/A N/A          |                          |
| <b>Address1:</b> 101 FRANKLIN ST           |                          |
| <b>Address2:</b> N/A                       |                          |
| <b>City / State:</b> KEWANEE, IL           |                          |
| <b>Country:</b> UNITED STATES              |                          |
| <b>Phone:</b> (309) 853-3541               | <b>Fax:</b> N/A          |
| <b>Email:</b> N/A                          | <b>Website:</b> N/A      |

Figure 6.11

## 6.2 Special Application Equipment Lists (SAEL)

The SAELs are tailored by the user to meet specified criteria. This capability may be used to identify supported equipment in a selected Equipment Category (EC) for a specified Ship Type(s), Ship Class(es), or Ship(s). The user must enter the minimum installed quantity as part of the input criteria. The Special Application Equipment List default screen is illustrated in Figure 6.12

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[Standard Design Process](#) | **SAEL Processing**

### Equipment List Process

[HEDRS HOME](#)

**Overview**  
The Special Application Equipment Lists (SAELs) is used to identify supported equipment in a selected Equipment Category (EC) for a specified Ship Type(s), Ship Class(es), or Ship(s)

**Instructions**  
(M) denotes a mandatory field

1. Select an EC
2. Select a Criteria
3. Enter other information as required (based on criteria selected)
4. Click **Add Criteria**
5. Repeat process 2 - 4 for multiple criterias
6. Click **Query**

(M) EC:

---

(M) Select a Criteria:

HULL:

CLASS:

Ship:

Minimum # of Ship(s):

Quantity:

---

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**Figure 6.12**

This process identifies Supported Equipment for the specified Ship Class(es) within a selected Equipment Category (EC), using a minimum number of Ships and a minimum population. Up to 5 Classes may be selected. After the search criteria are entered, press the Add Criteria button. To remove a Class and its criteria, just click on the information in the list window. Click on the Query button to run a query. Again, the field parameter(s) that can be used are:

- EC
- Ship Class
- Minimum # of Ships
- Quantity (Population)

Standard Design Process | SAEL Processing

**Equipment List Process** HEDRS HOME

**Overview**  
The Special Application Equipment Lists (SAELs) is used to identify supported equipment in a selected Equipment Category (EC) for a specified Ship Type(s), Ship Class(es), or Ship(s)

**Instructions**  
(M) denotes a mandatory field  
1. Select an EC  
2. Select a Criteria  
3. Enter other information as required (based on criteria selected)  
4. Click **Add Criteria**  
5. Repeat process 2 - 4 for multiple criteria  
6. Click **Query**

(M) EC: 1-PUMPS

---

(M) Select a Criteria: CLASS

HULL: -SELECT-

CLASS: AS39

Ship: -SELECT-

Minimum # of Ship(s): 1

Quantity: 6

Add Criteria    Query

| CLASS | Ship Type | Hull | # of Ships | Qty | Delete |        |
|-------|-----------|------|------------|-----|--------|--------|
| AS39  |           | 0    | 0          | 1   | 6      | Delete |

**Figure 6.13**

The EL - SAEL - Processing Results screen (Figure 6.13) displays the Query Criteria that was selected. Other elements on the Application Data Processing Results screen (Figure 6.14) are:

- Total Number of Records
- Total APLs
- Avg. PRPC
- Total Fleet Pop (number of total installations throughout the Fleet)
- Avg. NIIN Count (average number of NIINs per APL in the results)

**Equipment List Process-Special Processing**

Print    Cancel

| Query Criteria |           |      |            |     |   |  |  |  |  |  |
|----------------|-----------|------|------------|-----|---|--|--|--|--|--|
| EC: 1          |           |      |            |     |   |  |  |  |  |  |
| CLASS          | Ship Type | Hull | # of Ships | Qty |   |  |  |  |  |  |
| AS39           |           | 0    | 0          | 1   | 8 |  |  |  |  |  |

Total no. of records: 10

Data Download: [Click here](#) to download data in Microsoft Excel format

Data Download: [Click here](#) to download data in XML format

| ↓                         |   |   | Nomenclature                                      |                       |     |     |     |    | TM | PMS | TRN | MFR | NVY |
|---------------------------|---|---|---|-----------------------|-----|-----|-----|----|----|-----|-----|-----|-----|
| <a href="#">011010001</a> | A | Y | PUMP UNIT PRTL<br>250.000GPM 93.00PSI             | <a href="#">15852</a> | 237 | 788 | 506 | 67 | X  | X   | X   |     |     |
| <a href="#">016160738</a> | A | N | PUMP RTY 27.000GPM<br>15.00PSI 1750RPM MD         | <a href="#">59180</a> | 8   | 32  | 3   | 1  | X  | X   | X   | X   |     |
| <a href="#">016161043</a> | A | N | PUMP RTY 27.000GPM<br>350.00PSI RPM MD            | <a href="#">59180</a> | 20  | 26  | 2   | 13 | X  | X   | X   | X   |     |
| <a href="#">017000037</a> | A | N | PUMP UNIT CTFGL<br>100.000GPM 39.00PSI<br>1750RPM | <a href="#">96046</a> | 6   | 17  | 100 | 1  | X  | X   | X   | X   |     |
| <a href="#">017000042</a> | A | N | PUMP CTFGL 100.000GPM<br>39.00PSI 1750RPM MCC     | <a href="#">96046</a> | 4   | 20  | 387 | 34 | X  | X   | X   | X   |     |
| <a href="#">017000103</a> | A | N | PUMP UNIT CTFGL<br>100.000GPM 39.00PSI<br>1750RPM | <a href="#">96046</a> | 1   | 10  | 4   | 3  |    |     |     |     |     |
|                           |   |   | PUMP CTFGL 2200.000GPM                            |                       |     |     |     |    |    |     |     |     |     |

**Figure 6.14**

Users may sort results by clicking any column that is underlined. An arrow will indicate will indicate the direction of sorting.

The results can be downloaded to Excel or XML files by clicking the “here” link.

The user can also click on a selected APL to view additional information for the equipment. This screen (Figure 6.15) will have the following three Tab options:

- CCF/ILS Data - Displays the full Component Characteristics File data for the equipment
- Ship Data - Displays a list of all ships on which the equipment is installed.
- CAGE/MFR Cross Ref. - Displays data for the equipment’s manufacturer.

From this screen, the user can now select the Ship Data tab (Figure 6.15), CCF/ILS (Figure 6.16), or CAGE/MFR Cross Ref (Figure 6.17). See each tab for additional information for the selected APL.

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Ship Data
[CCF/ILS Data](#)
[CAGE/MFR Cross Ref](#)

Print
Cancel

**Ship Data**

APL: 011010001

Nomenclature: PUMP UNIT PRTL 250.000GPM 93.00PSI

Ship POP: 237

Fleet POP: 788

ESC: A

« ◀ 1 2 3 4 5 6 7 ▶ »

| ↓    | SAC   | SWAB/ESWBS |   |
|------|-------|------------|---|
| AS39 | 0AXYK | 66411      | 6 |
| AS40 | 0AXYK | 66411      | 4 |
| CG52 | 0ABDL | 66411      | 3 |
| CG53 | 0ABDL | 66411      | 3 |
| CG54 | 0ABDL | 66411      | 3 |
| CG55 | 0ABDL | 66411      | 3 |
| CG56 | 0ABDL | 66411      | 3 |
| CG57 | 0ABDL | 66411      | 3 |
| CG58 | 0ABDL | 66411      | 3 |
| CG59 | 0ABDL | 66411      | 3 |

« ◀ 1 2 3 4 5 6 7 ▶ »

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**Figure 6.15**

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Ship Data | **CCF/ILS Data** | CAGE/MFR Cross Ref

| CCF / ILS Data  |   |
|---|---|
| <b>APL:</b> 011010001<br><b>ESC:</b> A<br><b>CAGE:</b> 15852  | <b>Nomenclature:</b> PUMP UNIT PRTL 250.000GPM 93.00PSI<br><b>Best Value:</b><br><b>Mfr. Name:</b> W.S. DARLEY & CO |
| <b>LAPL:</b> 01-044<br><b>Training:</b> X<br><b>COTS:</b> Y   | <b>Mfr. DWG:</b> B229<br><b>Tech. Manual:</b> X<br><b>PRPC:</b> 506   |
| <b>NAVY DWG:</b><br><b>Planned Maint. Sched:</b> X<br><b>NIIN Cnt:</b> 67   |   |
| Line  | Characteristic / CCF Data   |
| 03  | MFR DWG :<br>B229 -   |
| 04  | MFR ID :<br>P-100 (2BE10YDN) -  |
| 06  | NSN :<br>3H4320-01-387-2869BG -   |
| 10  | TYPE :<br>SGL STG SGL SUCT -  |
| 11  | CAPACITY :<br>00250.000 - GPM   |
| 12  | INTAKE :<br>02.50 - IN ID X   |
| 14  | DISCHARGE :<br>02.00 - IN ID X  |
| 17  | TOTAL DYNAMIC HEAD :<br>00093.00 - PSI  |
| 19  | MOUNTING :<br>HORZ -  |
| 20  | TYPE DRIVE :<br>MCC -   |
| 22  | SPEED :<br>03600 - RPM  |
| <b>Remarks:</b><br>P100 NDI PORT FIRE PUMP,CAPACITY-100GPM, 150GPM & 250GPM,TOTAL DYNAMIC HEAD-93PSI, 82PSI & 47PSI,IMPELLER DIA-7.25 IN,PDCN-N5UZ64,TSA IS NSWCCD-SSES-CODE 621, POC IS M. HAMPSON,PA IS NAVICP-M CODE 05131, POC IS DON FERGUSON,MFR DWG-DBM0001,NOTE:APL HAS BEEN UPDATED TO INCORPORATE CHANGES,IDENTIFIED IN SCD 1917 AND SCD 1171. MFR DWG, PRIOR TO,UPGRADE, WAS B229,,CCF DATE -02 96 |   |

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**Figure 6.16**

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Ship Data | CCF/ILS Data | **CAGE/MFR Cross Ref**

| CAGE Results  |   |
|---|---|
| <b>CAGE:</b> 15852<br><b>Manufacturer:</b> W.S. DARLEY & CO<br><b>Division:</b> N/A<br><b>Points of Contact:</b> PAUL DARLEY<br><b>Address1:</b> 2000 ANSON DR<br><b>Address2:</b> N/A<br><b>City / State:</b> MELROSE PARK, IL<br><b>Country:</b> UNITED STATES<br><b>Phone:</b> (708) 345-8050<br><b>Email:</b> pauldarley@wsdarley.com | <b>Replace CAGE:</b> N/A<br><b>Type Code:</b> A<br><b>Fax:</b> (708) 345-7573<br><b>Website:</b> www.darley.com |

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**Figure 6.17**

## 7 HULL/CLASS (HC) COMPARISON PROCESS MODULE

To access the Hull/Class (HC) Process module, click the HC Process tab in the HEDRS module. The HC Comparison Process module (Figure 7.1) provides the capability to identify equipment, by APL number, installed on a selected Hull that are also installed within a selected Ship Class or within an Ad Hoc selected group of ships. The program further identifies the quantity installed on each ship of the selected class.

|             |                    |             |               |            |                   |           |          |
|-------------|--------------------|-------------|---------------|------------|-------------------|-----------|----------|
| App Process | Best Value Process | CCF Process | DMSNS Process | EL Process | <b>HC Process</b> | Utilities | ILS Cost |
|-------------|--------------------|-------------|---------------|------------|-------------------|-----------|----------|

**Hull Comparison Utility**

The Hull Comparison Utility provides the capability to identify equipment installed on a selected Hull that are also installed within a selected Ship Class, or within an Ad Hoc selected group of ships.

**Instructions**  
**(M) denotes a mandatory field**  
 1. Select a **Criteria**  
 2. For **CLASS** query  
     Select a **HULL**, a **CLASS** and select an **EC** or enter an **APL**  
 3. For **Ad-Hoc** query  
     Select a **HULL**, select an **EC** or enter an **APL** and select up to 20 **SHIPS**  
 4. Click on **Query**

**(M) Select a Criteria:**

---

**HULL:**

---

**EC:**

**OR**

**APL:**

---

**CLASS:**

---

**For Ad-hoc query select 1 to 20 ships**

| Available Ships  | Selected Ships  |
|--|---|
| <div style="border: 1px solid gray; padding: 2px;"> AS39 - USS EMORY S. LAND<br/> AS40 - USS FRANK CABLE<br/> CG52 - USS BUNKER HILL<br/> CG53 - USS MOBILE BAY<br/> CG54 - USS ANTIETAM<br/> CG55 - USS LEYTE GULF<br/> CG56 - USS SAN JACINTO<br/> CG57 - USS LAKE CHAMPLAIN<br/> CG58 - USS PHILIPPINE SEA<br/> CG59 - USS PRINCETON </div> | <div style="border: 1px solid gray; padding: 2px; min-height: 100px;"> No ships selected </div> |
| <input type="button" value="Add Ships"/><br><input type="button" value="Delete Ships"/>  |   |
| <input type="button" value="Query"/>   |   |

**Figure 7.1**

The Hull/Class utility can support data research in various ways, for example:

- A platform manager may wish to evaluate a ship scheduled for deactivation to identify ships of the platform (class) that could use the equipment and/or associated repair parts from the deactivated ship.
- A ship manager may wish to investigate a selected class's ships, which are known to be scheduled for deactivation.
- A ship may wish to investigate its degree of commonality with a selected class because it shares a common homeport with various ships of the class.

The Ad Hoc utility, which enables the user to compare a single ship with up to 20 other ships, might be used to identify potential support from other ships at the same pier, or ships within the same Battle Group, or nearby ships in any area where the routine supply sources are not available.

## 7.1 Hull/Class Comparison Process - Query Selection

A single query is limited to a selected Equipment Category to facilitate data retrieval. To build a query the user must select each of the following from the appropriate dropdown list box.

- EC or APL
- Hull
- A Class or an Ad Hoc Query of up to 20 ships against which to run the comparison. Use Shift/Left Click to select adjacent ships.

## 7.2 Hull/Class Comparison Query - Result Screen

When the processing is complete the HC Process Results (Figure 7.2) screen will be displayed on the screen.

| APL                       | ESC | Nomenclature                              | Qty in Class | # of Ships |
|---------------------------|-----|---|--------------|------------|
| <a href="#">U11U1UUU1</a> | A   | PUMP UNIT PRIL 250.000GPM 93.00PSI        | 4            | 1          |
| <a href="#">016020885</a> | A   | PUMP RCIPG 200.000GPM 800.00PSI STM       | 1            | 1          |
| <a href="#">016020886</a> | A   | PUMP RCIPG 100.000GPM 50.00PSI STM        | 1            | 1          |
| <a href="#">016020895</a> | A   | PUMP CTFGL 240.000GPM 75.00PSI 1750RPM MD | 2            | 1          |
| <a href="#">016031729</a> | A   | PUMP CTFGL 60.000GPM 50.00PSI 3520RPM MD  | 2            | 1          |
| <a href="#">016160487</a> | C   | PUMP RTY 440.000GPM 60.00PSI 1227RPM ATT  | 1            | 1          |
| <a href="#">016160738</a> | A   | PUMP RTY 27.000GPM 15.00PSI 1750RPM MD    | 4            | 1          |
| <a href="#">016160756</a> | B   | PUMP RTY 30.000GPM 400.00PSI 1750RPM MD   | 3            | 1          |
| <a href="#">016161040</a> | A   | PUMP RTY 100.000GPM 100.00PSI 1750RPM MD  | 2            | 1          |
| <a href="#">016161043</a> | A   | PUMP RTY 27.000GPM 350.00PSI RPM MD       | 4            | 1          |
| <a href="#">016161069</a> | C   | PUMP RTY 60.000GPM 95.00PSI 1143RPM MCC   | 4            | 1          |
| <a href="#">016180514</a> | A   | PUMP CTFGL 25.000GPM PSI 3550RPM MCC      | 1            | 1          |
| <a href="#">016460007</a> | A   | PUMP RCIPG GPM25000.00PSI RPM AIR         | 1            | 1          |

**Figure 7.2**

The Hull/Class Comparison Query Results screen will display the Query Criteria that were selected.

Users may sort results by clicking any column that is underlined. An arrow will indicate will indicate the direction of sorting.

The results can be downloaded to Excel or XML files by clicking the “here” link.

The user can also click on a selected APL to view additional information for the equipment.

**Ship Data** | [CCF/ILS Data](#) | [CAGE/MFR Cross Ref](#)

| Ship Data   |       |            |   |
|---|-------|------------|---|
| <b>APL:</b> 88A000016<br><b>Nomenclature:</b> VALVE DPHRM CONT 2.000IPS 175.0PSI<br><b>Ship POP:</b> 58<br><b>Fleet POP:</b> 80<br><b>ESC:</b> A  |       |            |   |
| <input type="button" value="←"/> <input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="5"/> <input type="button" value="6"/> <input type="button" value="→"/> |       |            |   |
| ↓   | SAC   | SWAB/ESWBS |   |
| CV67  | OASKM | 53311      | 2 |
| CVN74   | OASKM | 53311      | 1 |
| CVN75   | OASKM | 53311      | 2 |
| DDG100  | OAAMI | 53311      | 1 |
| DDG101  | OAAMI | 53311      | 1 |
| DDG102  | OAAMI | 53311      | 1 |
| DDG103  | OAAMI | 53311      | 1 |
| DDG104  | OAAMI | 53311      | 1 |
| DDG105  | OAAMI | 53311      | 1 |
| DDG106  | OAAMI | 53311      | 1 |
| <input type="button" value="←"/> <input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="5"/> <input type="button" value="6"/> <input type="button" value="→"/> |       |            |   |

**Figure 7.3**

This screen (Figure 7.3) will have the following three Tab options:

- CCF/ILS Data - Displays the full Component Characteristics File data for the equipment
- Ship Data - Displays a list of all ships on which the equipment is installed.
- CAGE/MFR Cross Ref. - Displays data for the equipment’s manufacturer.

From this screen, the user can select the Ship Data tab (Figure 7.3), CCF/ILS (Figure 7.4), or CAGE/MFR Cross Ref (Figure 7.5). See each tab for additional information for the selected APL.

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[Ship Data](#) | **CCF/ILS Data** | [CAGE/MFR Cross Ref](#)

| CCF / ILS Data        |   |
|-----------------------|---|
| <b>APL:</b> 88A000016 | <b>Nomenclature:</b> VALVE DPHRM CONT 2.000IPS 175.0PSI |
| <b>ESC:</b> A         | <b>Best Value:</b>                                      |
| <b>CAGE:</b> 79227    | <b>Mfr. Name:</b> WATTS REGULATOR CO                    |
| <b>LAPL:</b> 88-193   | <b>Mfr. DWG:</b>  |
| <b>Training:</b>      | <b>Tech. Manual:</b>                                    |
| <b>COTS:</b> Y        | <b>PRPC:</b> 29   |
|                       | <b>NAVY DWG:</b>  |
|                       | <b>Planned Maint. Sched:</b>                            |
|                       | <b>NIIN Cnt:</b> 7                                      |

| Line | Characteristic / CCF Data   |
|------|---|
| 04   | <b>MFR ID :</b><br>909M1QT-2IN 385719 -   |
| 06   | <b>NSN :</b><br>9B4820-01-342-3183 -  |
| 10   | <b>TYPE :</b><br>ILN -  |
| 11   | <b>SIZE :</b><br>02.000 -   |
| 12   | <b>PRESSURE RATING :</b><br>00175.0 - PSI   |
| 13   | <b>TEMPERATURE RATING :</b><br>0140 - DEG F WKG X   |
| 14   | <b>BODY MATERIAL :</b><br>BRZ -   |
| 15   | <b>END CONNECTIONS :</b><br>MTHRD - INL X   |
| 16   | <b>OPERATION :</b><br>SPR/DPHRM -   |
|      | <b>Remarks:</b><br>PROVISIONING LAPL-NSWCCD-SSES ENG. REVIEW, BACKFLOW PVNTN, MFR MODEL-909 SERIES, END TO END-10.37IN W/O BALL VALVE, PDCN-N93CCJ 8LB, TSA IS NSWCCD-SSES CODE 94522, POC IS DON BAKER, PA IS NAVICP-M CODE 05827, POC IS L. CALAMAN, LEVEL III VALVE DO NOT INSTALL L1/SS SERVICE, CCF DATE -0100 |

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**Figure 7.4**

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[Ship Data](#) | [CCF/ILS Data](#) | **CAGE/MFR Cross Ref**

| CAGE Results                             |                            |
|--|----------------------------|
| <b>CAGE:</b> 79227                       | <b>Replace CAGE:</b> N/A   |
| <b>Manufacturer:</b> WATTS REGULATOR CO  | <b>Type Code:</b> A        |
| <b>Division:</b> N/A                     |                            |
| <b>Points of Contact:</b> MARYANN KUCHAR |                            |
| <b>Address1:</b> 815 CHESTNUT ST         |                            |
| <b>Address2:</b> N/A                     |                            |
| <b>City / State:</b> NORTH ANDOVER, MA   |                            |
| <b>Country:</b> UNITED STATES            |                            |
| <b>Phone:</b> (978) 688-1811             | <b>Fax:</b> (978) 794-1085 |
| <b>Email:</b> N/A                        | <b>Website:</b> N/A        |

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**Figure 7.5**

## 8 UTILITIES MODULE

The Utilities Module was developed as an additional user-friendly capability to facilitate access to cross-referenced information used throughout the HEDRS system and NAVSEA's HM&E Standardization Program. Some of the files available in this module (e.g. SAC/SAD; SWAB/ESWBS; LAPL/Noun Name) exist as a stand-alone here, but are also available through other HEDRS Modules.

The Utilities Process offers the following Cross Reference tools:

- APL Tab: APL / NIIN and APL/PRPC (Figure 8.1)
- LAPL Tab: LAPL / Noun Name , LAPL Description , and LAPL / MILSPEC (Figure 8.2)
- Conversion Tab: English to Metric Conversion and Metric to English Conversion (Figure 8.3)
- CAGE / MFR Tab (Figure 8.4)
- HULL / UIC Tab (Figure 8.5)
- SAC / SAD Tab (Figure 8.6)
- SWAB / /ESWBS Tab: SWAB / ESWBS to Description (Figure 8.7)

Follow the on screen instructions to complete a search from any of the tabs.

The screenshot shows the 'HEDRS - Utilities - APL' interface. At the top, there are navigation links: Home, Feedback, Links, and User Profile. The user is identified as KENNETH CARR with a logout option. A menu bar contains tabs for APL, LAPL, Conversion, CAGE/Mfr, Hull/UIC, SAC/SAD, and SWAB/ESWBS. The APL tab is selected. The main content area has a blue header 'HEDRS - Utilities - APL' and a 'HEDRS HOME' link. Below this, there are instructions: 1. Enter APL and Click NIIN to get NIIN information; 2. Enter APL and Click PRPC to get PRPC information; 3. Enter NIIN and Click APL to get APL information. There are two input fields: 'Enter APL:' with a 'Get NIIN Info' button and a 'Get PRPC' button; and 'Enter NIIN:' with a 'Get APL Info' button. At the bottom, there is footer text: PDREP NAVSEALCGCENDET PORTSMOUTH, NH. Version : 5.0.00074, Build Date : 03/30/2008, Phone : (207) 438-1690, Email Technical Support.

Figure 8.1

The screenshot shows the 'HEDRS - Utilities - LAPL' interface. At the top, there are navigation links: Home, Feedback, Links, and User Profile. The user is identified as KENNETH CARR with a logout option. A menu bar contains tabs for APL, LAPL, Conversion, CAGE/Mfr, Hull/UIC, SAC/SAD, and SWAB/ESWBS. The LAPL tab is selected. The main content area has a blue header 'HEDRS - Utilities - LAPL' and a 'HEDRS HOME' link. Below this, there are instructions: 1. Enter LAPL and Click LAPL(1) to get LAPL information; 2. Enter LAPL or Description (partial search) and Click LAPL(2) to get LAPL information; 3. Enter LAPL or MilSpec (partial search) and Click LAPL(2) to get LAPL information. There are three input fields: 'Enter LAPL:' with a 'Get LAPL(1) Info' button; 'Description:' with a 'Get LAPL(2) Info' button; and 'Enter MILSPEC:' with a 'Get LAPL(3) Info' button. At the bottom, there is footer text: PDREP NAVSEALCGCENDET PORTSMOUTH, NH. Version : 5.0.00074, Build Date : 03/30/2008, Phone : (207) 438-1690, Email Technical Support.

Figure 8.2

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|                     |                      |                            |                          |                          |                         |                            |
|---------------------|----------------------|----------------------------|--------------------------|--------------------------|-------------------------|----------------------------|
| <a href="#">APL</a> | <a href="#">LAPL</a> | <a href="#">Conversion</a> | <a href="#">CAGE/Mfr</a> | <a href="#">Hull/UIC</a> | <a href="#">SAC/SAD</a> | <a href="#">SWAB/ESWBS</a> |
|---------------------|----------------------|----------------------------|--------------------------|--------------------------|-------------------------|----------------------------|

HEDRS - Utilities - Metric/English Conv
 [HEDRS HOME](#)

**Metric to English**

**Instructions**  
 1. Select a **Conversion** type  
 2. Enter a **Value** and Click **Convert** to get converted value

Select a Conversion:

Enter a value:

**English to Metric**

**Instructions**  
 1. Select a **Conversion** type  
 2. Enter a **Value** and Click **Convert** to get converted value

Select a Conversion:

Enter a value:

---

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**Figure 8.3**

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|                     |                      |                            |                          |                          |                         |                            |
|---------------------|----------------------|----------------------------|--------------------------|--------------------------|-------------------------|----------------------------|
| <a href="#">APL</a> | <a href="#">LAPL</a> | <a href="#">Conversion</a> | <a href="#">CAGE/Mfr</a> | <a href="#">Hull/UIC</a> | <a href="#">SAC/SAD</a> | <a href="#">SWAB/ESWBS</a> |
|---------------------|----------------------|----------------------------|--------------------------|--------------------------|-------------------------|----------------------------|

HEDRS - Utilities - CAGE/MFR
 [HEDRS HOME](#)

**Instructions**  
 1. Enter **CAGE** and Click **CAGE(1)** to get CAGE information  
 2. Enter **MFR Name**(partial search) and Click **CAGE(2)** to get CAGE information

CAGE:

MFR:

---

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**Figure 8.4**

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[APL](#) | [LAPL](#) | [Conversion](#) | [CAGE/Mfr](#) | **Hull/UIC** | [SAC/SAD](#) | [SWAB/ESWBS](#)

**HEDRS - Utilities - HULL/UIC** [HEDRS HOME](#)

**Instructions**  
 1. Select a **Search By** and Click **Get Data**  
 2. Select from the **Data List** and Click **Query**

Search By:

---

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 Thursday, 28<sup>th</sup> June, 2012

**Figure 8.5**

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[APL](#) | [LAPL](#) | [Conversion](#) | [CAGE/Mfr](#) | [Hull/UIC](#) | **SAC/SAD** | [SWAB/ESWBS](#)

**HEDRS - Utilities - SAC** [HEDRS HOME](#)

**Instructions**  
 1. Enter a **SAD** or **Keyword** and Click **SAC(1)** to get SAC information  
 2. Select a **SAC** and Click **SAC(2)** to get SAC information

Enter SAD or Keyword:

Select a SAC:

---

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**Figure 8.6**

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[APL](#) | [LAPL](#) | [Conversion](#) | [CAGE/Mfr](#) | [Hull/UIC](#) | [SAC/SAD](#) | **SWAB/ESWBS**

**HEDRS - Utilities - APL** [HEDRS HOME](#)

**Instructions**  
 1. Enter a **SWAB** or **Keyword** and Click **Get Data** to get SWAB information

Enter a SWAB/ESWBS:

---

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**Figure 8.7**

## 9 ILS CALCULATOR MODULE

The ILS Cost Calculator is accessible by clicking the ILS Cost Calc tab available in the HEDRS home page. The ILS Calculator (Figure 9.1) provides an objective of this analysis using a logical, rational methodology to accurately evaluate the life cycle costs associated with the Navy's equipment needs. Because of increasing pressure to minimize costs, the Government (and in particular the Navy) has focused considerable attention on improved efficiency and economies.

The ILS Calculator uses specially designed algorithms to:

- Provide a reproducible, logical, and conservative mathematical model for the assessment of costs associated with objective ILS variables.
- Provide consistent criteria to objectively evaluate the cost proposals submitted in competitive procurements where the basis for competition is a performance specification.
- Providing a rational basis to develop budget and fiscal requirements associated with ILS.
- Enter the estimated values into the five criteria and click Calculate.
- Click Clear to reset all the variables in the calculator.
- Check the boxes next to the results row or column that are desired.

The screenshot shows the ILS Cost Calculator interface within a web browser. At the top, there are navigation links: Home, Feedback, Links, User Profile, and PDREP Manuals. The user is identified as 'TEST PLAN' with a 'logout' link. A series of tabs at the top includes 'App Process', 'Best Value Process', 'CCF Process', 'DMSMS Process', 'EL Process', 'HC Process', 'Utilities', and 'ILS Cost Calc' (which is highlighted).

The main content area is titled 'ILS Cost Calculator' and contains the following input fields and controls:

- Number of Parts in the Original Equipment: 0
- Expected Life Cycle in Years: 0
- Price of Original Equipment: 0.0
- Number of Ship Classes to be Installed On: 0
- Number of Equipment to be Procured: 0
- Buttons: Calculate, Clear
- Checkboxes:  HM&E,  Electronics

Below these are two columns of checkboxes and input boxes:

|  |                      |                      |
|--|----------------------|----------------------|
| <input checked="" type="checkbox"/> Provisioning             | <input type="text"/> | <input type="text"/> |
| <input checked="" type="checkbox"/> NSN Maintenance          | <input type="text"/> | <input type="text"/> |
| <input checked="" type="checkbox"/> Training                 | <input type="text"/> | <input type="text"/> |
| <input checked="" type="checkbox"/> Tech Manuals             | <input type="text"/> | <input type="text"/> |
| <input checked="" type="checkbox"/> Installation DWG Changes | <input type="text"/> | <input type="text"/> |
| <input checked="" type="checkbox"/> Configuration Control    | <input type="text"/> | <input type="text"/> |
| <input checked="" type="checkbox"/> Planned Maintenance      | <input type="text"/> | <input type="text"/> |
| <b>Totals:</b>   | <input type="text"/> | <input type="text"/> |

At the bottom, a footer contains the following text: PDREP NAVSEALOGCENDET PORTSMOUTH, NH. Version : 5.0.8, Build Date : 03/09/2012. Phone : (207) 438-1690. Email Technical Support. Thursday, 28<sup>th</sup> June, 2012.

Figure 9.1

## 10 GLOSSARY

APL - Allowance Parts List. A maintenance support document developed by the Navy for a specific system, equipment or component stating the maintenance significant piece parts making up the equipment and support items associated with its operation and maintenance by means of appropriate technical and supply management coding. The APL identifies and states the quantities of support items authorized for a naval ship or activity with the equipment.

CAGE - Commercial and Government Entity

CCF - Component Characteristics File

COTS - Commercial Off-the-Shelf

EC - Equipment Category

ESC - Engineering Support Code. A single character code that identifies the degree of support (reprocurability) provided for a HM&E equipment by the Original Equipment Manufacturer (OEM).

ESWBS - Expanded Ship Work Breakdown Structure

Flt Pop - Fleet Population

HEDRS - Hull, Mechanical and Electrical Equipment Data Research System (HEDRS). An unclassified, Naval Sea Logistics Center maintained APL database accessed via the World Wide Web, which is For Official Use Only.

HM&E - Hull, Mechanical, & Electrical.

- a. Nonstandard HM&E Equipment or component is non standard if it meets any one of the following criteria: (1) has an engineering support code of "B", "C", "L", "T" or "Y"; (2) is not supported by the Navy Supply System; (3) is not assigned an APL; (4) is not fully supported by the OEM; and, (5) is Copy Cat equipment.
- b. Standard HM&E Equipment or Component. A HM&E Equipment or component that meets the following criteria: (1) has an engineering support code of "A", "G", "S", "\*", "X" or "Z"; (2) that are known re-procurable at the end item and piece parts level from the OEM; and, (3) that are supported by an APL and that have piece parts support established in the Navy Supply System.

ILS - Integrated Logistics Support

LAPL - Lead Allowance Parts List

MFR - Manufacturer Drawing

NVY - NAVCOMPLAN (Navy Drawing)

PMS - Planned Maintenance System

PRPC - Projected Repair Parts Cost (annual average cost of parts)

SAC - Service Application Code

SAD - Service Application Description

SAEL - Special Application Equipment List. A list of HM&E equipment and components that have an engineering support code of "A", "G", "S", "\*", "X", or "Z"

SDCL - Standard Design Components List. A list of HM&E Equipment or components that has an engineering support code of "S".

SEL - Supported Equipment List . A list of HM&E equipment and components meeting the following criteria: (1) has an engineering support code of "A", "G", "S", "\*", "X", or "Z"; and, (2) has a Fleet population of five or more; and, (3) excludes the following APL's with the following prefixes and suffixes:

Ship Pop - Ship Population

STHN - Ship Type and Hull Number

SWAB - Ship Work Authorization Boundary

TM - Tech Manual

UIC - Unit Identification Code