



Additive Manufacturing (AM) Application

User Guide
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FOREWORD

This user guide provides information about the Product Data Reporting and Evaluation Program - Automated Information System (PDREP-AIS) and is intended to assist users with the Additive Manufacturing (AM) module functionality. This document does not cover specific policy or procedure and is designed to work in concurrence with existing processes. This guide does not replace or amend any Department of Defense (DoD) instructions, regulations, and/or policies. Revisions to this guide are made after application changes have been implemented. The date of the last amendment is located on the title page. Though this document is accessible to all users, its content is intended for those individuals with module access. Module access is granted on a case by case and need to know basis.

NOTE: The data contained within this guide is NOT real data and it is NOT to be used for business purposes. The material presented is intended to serve as an example only and was taken from a test system.

INTRODUCTION

This document is intended to guide personnel in the use of Product Data Reporting and Evaluation Program – Automated Information System (PDREP-AIS) Additive Manufacturing (AM) module. The PDREP-AIS is accessible via the Product Data Reporting and Evaluation Program home page: <https://www.pdrep.csd.disa.mil/>

Getting Access

- **First Time Users**

First time users are required to submit an on-line PDREP-AIS System Authorization Access Request (SAAR) form. Instructions are available on the PDREP home page as linked above. Click on the [Request Access](#) link for instructions on filling out an access request form. When requesting an account, ensure all fields indicated as mandatory are completely filled out. Mandatory fields are indicated by (M). The application will not be accepted if required information is missing.

- **Existing PDREP Users**

Existing PDREP users may request additional or updated access privileges by submitting an updated SAAR. To do this, log into the PDREP-AIS and hover over your name in the upper right corner of the page and select 'Access Change Request'. Update the SAAR and enter a narrative to describe requested changes, read and acknowledge the User Agreement and click 'Sign and Submit Account Change Request' button to complete the submission.

Contact us

To report an issue, ask a question, or submit suggestions for improvement to software may be made by active users within PDREP-AIS by hovering over the 'Help' link on the PDREP-AIS main menu or selecting the web master email link located at the bottom of every PDREP-AIS webpage.

Additional Resources available on the NSLC Portsmouth Homepage

In order to aid PDREP-AIS users, reference these additional resources as needed:

[FAQ](#) – On the PDREP website under References, the Frequently Asked Questions page gives quick answers to the most commonly received inquiries. Your question(s) may be easily answered there.

[Guides & Manuals](#) – This area of the PDREP website (under References) houses the PDREP-AIS' technical documents. These comprehensive guides serve to offer directive on operational tasks and enable users to pinpoint or problem solve without expert assistance. These manuals do not instruct on policy or process and are instead stepwise instructions on using the PDREP-AIS application. Relevant process and policy are however referenced in the beginning of each of these manuals.

[Online Training](#) – Computer-based distance learning may be accessed through the Reference fly-out of the PDREP website. Instruction takes place remotely via instructor-led directive, module simulation, video-conferencing, application demonstration, or recorded lesson.

FAQ, User Guides and Online Training are also accessible within PDREP-AIS by hovering over the 'Help' link located at the top left of each application page.

1 ACCESS LEVELS

Access to the functionality of the AM application is determined by the User's Access Level. PDREP has several Access Levels for AM:

| Role | Functions |
|-----------------------|---|
| No Access | If a user does not have access to the PDREP-AM application, the program link will not appear on the user's PDREP Main Menu. |
| View Access | Access to view PDREP AM Data. |
| Non-Management | Access to view PDREP AM Data. |
| Management | Access to view PDREP AM Data. |
| Full Access | Access to view PDREP AM Data. |

Table 1

2 ACCESSING THE AM MODULE

- A. Once the user has logged in, hover over the 'Additive Manufacturing (AM)' link on the left side of the PDREP Main Menu (see **Figure 2.1**). Upon hovering over the link, the AM fly-out menu will appear.
- B. Click on the 'PDREP7 AM Module' link to open the Additive Manufacturing Module.

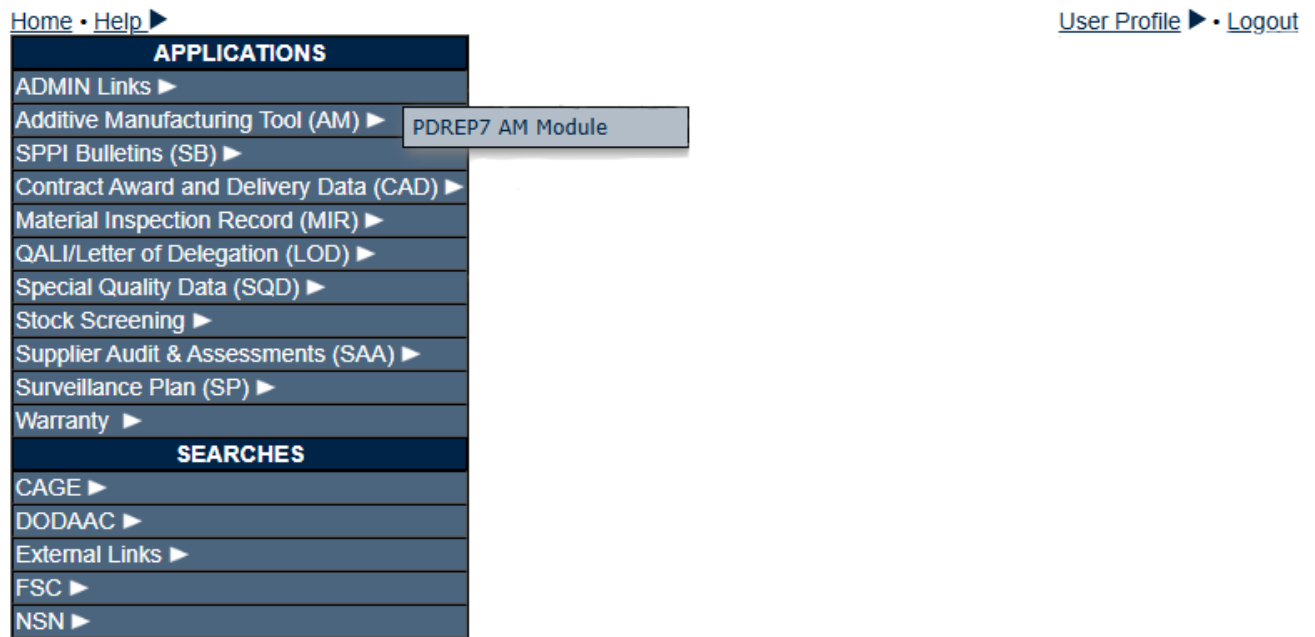


Figure 2.1

3 AM SEARCH

3.1 Searching the AM Data

- A. After clicking 'PDREP7 AM Module', you will be redirected to the PDREP 7 AM landing page (see **Figure 3.1**).
- B. Clicking 'Part ID Tool' will bring you to the AM Part ID Data Search (see **Figure 3.2**).

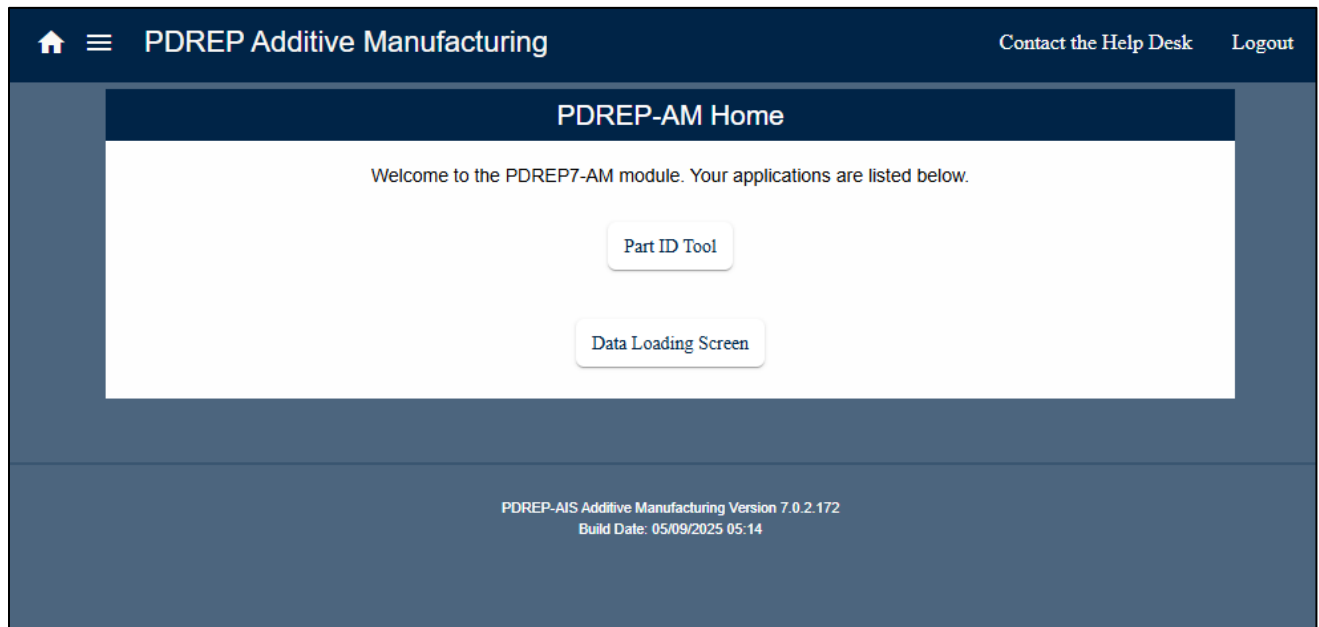


Figure 3.1

The screenshot displays the 'Additive Manufacturing (AM) Potential Part Identification Quick Search' form. It includes an 'INSTRUCTIONS' button. The form has several input fields: 'Search for NIIN:', 'Search by Ship Type/Class/Platform:', and 'Search by Ship:'. Below these are 'Optional filters' with checkboxes for 'Large Dimensions', 'High Avg Fleet CWT', 'Low Unit Price', 'Low Imec', 'High Fleet Demand', and 'High Unit Price'. A 'Run Query' button is positioned below the filters. Under the heading 'Save Parts to Custom NIIN Lists:', there are two sections. The first section has a 'Select NIIN List to add parts to:' dropdown and an 'Add checked parts to NIIN List' button. The second section has an 'Input name to create a new NIIN List:' text field and a 'Create new NIIN List' button.

Figure 3.2

- C. Enter the criteria for the search. There are three different types of searches: NIIN Search, Platform Search, and Ship Search. The NIIN search returns a list of ranked NIINs based upon the first three digits or more of a NIIN. Platform search allows users to return data for a specific ship class. Ship search returns data for a specific ship but needs to have a platform entered to search (see **Section 3.2**).
- D. Click the 'Run Query' button to view the data meeting the search criteria (see **Figure 3.3**).

Search for NIIN:

Search by Ship Type/Class/Platform:

Search by Ship:

Optional filters: ☐ Large Dimensions ☐ High Avg Fleet CWT ☐ Low Unit Price ☐ Low Imec
☐ High Fleet Demand ☐ High Unit Price

1077 parts identified for type **ACWT** :

| Rank | NIIN | Item Name | Unit Price (\$) | Demand Quantity | Average CWT (Hrs) | Mean Time to Repair (Hrs) | Mean Time Between Failures (Hrs) | Mean Logistic Down Time (Hrs) | IMEC | Whisker Reqs |
|------|-----------|---------------------------|-----------------|-----------------|-------------------|---------------------------|----------------------------------|-------------------------------|------|--------------|
| 1 | 010682552 | SLEEVE, SWAGING | \$ 0.53 | 1891 | 1.151 | 74 | 2.51515 | 1.236 | | 0 |
| 2 | 010429423 | CLOSER, DOOR | \$ 0.55 | 7891 | 1.181 | 171 | 5.481.5 | 1.275.1 | | 0 |
| 3 | 001455721 | SWAGING SLEEVE, WIRE ROPE | \$ 0.47 | 3011 | 1.611 | 55.2 | 5.96672 | 1.386.2 | | 0 |
| 4 | 000569962 | SCREW, MACHINE | \$ 3.02 | 1201 | 611.5 | 1165 | 5.667.9 | 781.5 | | 0 |
| 5 | 002782523 | CLAMP, HOSE | 2570 \$ | 1101 | 548 | 1702 | 8.719.1 | 758.3 | | 0 |
| 6 | 001182593 | THUMBSCREW | \$ 3.25 | 250 | 9701 | 1108 | 8.778.2 | 1.124.1 | | 0 |
| 7 | 010046946 | NUT, SELF LCKNG, | \$ 7.43 | 742 | 371 | 18.5 | 8.545.4 | 595.5 | | 0 |

Figure 3.3

Within the result-set, there are various data columns available:

- **Rank:** All parts returned in a PDREP AM search will be ranked based upon the ranks of ACWT, Fleet Demand, and Unit Price.
- **NIIN:** National Item Identification Number
- **Item Name:** Plain text part nomenclature
- **Unit Price (\$):** Unit Price for that NIIN.
- **Demand Quantity:** Number of Requisitions from SHIPS3M.
- **Average CWT (Hours):** Average Customer Wait Time.

- **MTTR (Hours):** Mean Time to Repair.
- **MTBF (Hours):** Mean Time Between Failure.
- **MLDT (Hours):** Mean Logistic Down Time.
- **IMEC:** Item Mission Essentiality Code.
- **Whiskey Requisition:** Requisitions starting with a 'W'.

There are also optional filters that can be applied to AM searches:

- **High Avg Fleet CWT:** Only includes NIINs with a ACWT above the 90th percentile
- **Low Unit Price:** Only includes the NIINs with a unit price in the lowest 10th percentile.
- **Low IMEC:** IMEC Score of 1 or 2
- **High Fleet Demand:** Only include the NIINs with a demand above the 90th percentile
- **High Unit Price:** Only includes the NIINs with a unit price above the 90th percentile

3.2 Creating NIIN Lists

- A. As can be seen in **Section 3.1**, the option to create and add to NIIN lists for the user to export. To start: Put a list name in the 'Input name to create a new NIIN List' field and hit 'Create new NIIN List' (see **Figure 3.4**).

Figure 3.4

- B. Once a NIIN list has been created, a user should select which list to use in the 'Select NIIN List to add parts to:' field and then check the box on the right side of the data columns and hit the 'Add checked parts to NIIN List' to add all selected NIINs to a NIIN List (see **Figure 3.5**).

| Rank | NIIN | Item Name | Unit Price (\$) | Demand Quantity | Average CWT (Hrs) | Mean Time to Repair (Hrs) | Mean Time Between Failures (Hrs) | Mean Logistic Down Time (Hrs) | IMEC | Whiskey Reqs | <input type="checkbox"/> |
|------|----------|-----------------|-----------------|-----------------|-------------------|---------------------------|----------------------------------|-------------------------------|------|--------------|--------------------------|
| 1 | 01302952 | SLEEVE, SWAGING | 50.55 | 1004 | 1611 | 12 | 1,015.2 | 1,369 | | 0 | <input type="checkbox"/> |
| 2 | 01402403 | CLOSER, DOOR | 56.11 | 2002 | 1,185 | 10.1 | 8,481.5 | 1,525.1 | | 0 | <input type="checkbox"/> |

Figure 3.5

4 NIIN LISTS

This section describes the functions on the NIIN Lists Page and how to manage NIIN lists.

4.1 Accessing NIIN Lists

Once in the PDREP7 AM Module, select the 'NIIN Lists' option on the left side menu bar to go to manage your NIIN lists (see **Figure 4.1**).

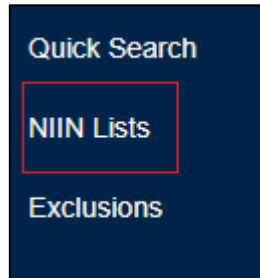


Figure 4.1

After following the NIIN Lists menu option, the user's NIIN lists will be displayed with their name and the amount of NIINs on that list (see **Figure 4.2**).

| Additive Manufacturing NIIN Lists for user | | |
|--|----------|---|
| You have 4 NIIN Lists: | | |
| AM User Guide | 2 NIINs | ▼ |
| Destroyers | 5 NIINs | ▼ |
| Landing Craft | 10 NIINs | ▼ |
| Submarines | 25 NIINs | ▼ |

Figure 4.2

4.2 Managing NIIN Lists

On the NIIN List Page, clicking on one of the lists displayed will open it to show the list of NIINs and the associated nomenclature. The managing options available to users are either to rename or delete the list. These options can be found in the bottom right when opening a NIIN list (see **Figure 4.3**)

5 EXCLUSION LISTS

For NIINs that one does not want to return in the Part ID Search, there is an exclusion list where users can identify NIINs that will then no longer show up in any queries. Users can search by either NIIN or by nomenclature and hit the 'Run Query' button (as seen in **Figure 5.1**).

The screenshot shows the 'Additive Manufacturing (AM) Exclusion List' interface. It features a search bar with the placeholder text 'Search by NIIN or partial Item Name'. To the right of the search bar are two buttons: 'Run Query' and 'Display All Exclusions'. Below the search bar, it says 'Displaying all Exclusions' and 'You have 0 Exclusions:'. At the bottom, there are two buttons: 'Exclude Selected NIINs' and 'Stop Excluding Selected NIINs'.

Figure 5.1

Once the query is run, the users will be provided with a list of NIINs that meet the search criteria. Like adding to NIIN lists, the user should select the checkbox on a NIIN to select it and then hit the 'Exclude Selected NIINs' button. This will remove the selected NIINs from any Part ID queries (see **Figure 5.2**).

The screenshot shows the 'Search Results' interface for the search term 'Flange'. It displays a table with 7 results. The table has four columns: NIIN, Item Name, Excluded?, and Select All. The 'Select All' column contains checkboxes. Below the table, there is a pagination bar showing 'Items per page: 10' and '1 - 7 of 7'. At the bottom, there are two buttons: 'Exclude Selected NIINs' and 'Stop Excluding Selected NIINs'.

| NIIN | Item Name | Excluded? | Select All <input type="checkbox"/> |
|-----------|--------------|-----------|-------------------------------------|
| 006405855 | FLANGE, PIPE | | <input type="checkbox"/> |
| 006222800 | FLANGE, PIPE | | <input type="checkbox"/> |
| 070055710 | FLANGE, PIPE | | <input type="checkbox"/> |
| 010465615 | FLANGE, PIPE | | <input type="checkbox"/> |
| 006406835 | FLANGE, PIPE | | <input type="checkbox"/> |
| 010465615 | FLANGE, PIPE | | <input type="checkbox"/> |
| 011285200 | GLAND FLANGE | | <input type="checkbox"/> |

Figure 5.2

Once exclusions are made, the user will be provided with a list of excluded NIINs. In this list, users can select each NIIN and choose to ‘Stop Excluding Selected NIINs’ if desired (see **Figure 5.3**).

INSTRUCTIONS

Search by NIIN or partial Item Name

Run Query

Display All Exclusions

Displaying all Exclusions

You have 3 Exclusions:

| NIIN | Item Name | Excluded? | Select All <input type="checkbox"/> |
|-----------|--------------|-----------|-------------------------------------|
| 000112800 | FLANGE, PIPE | Excluded | <input type="checkbox"/> |
| 00040020 | FLANGE, PIPE | Excluded | <input type="checkbox"/> |
| 01150030 | FLANGE, PIPE | Excluded | <input type="checkbox"/> |

Items per page: 10

1 – 3 of 3

< >

Exclude Selected NIINs

Stop Excluding Selected NIINs

Figure 5.3

SUMMARY

This concludes the Additive Manufacturing (AM) user guide.

Content provided within this document is maintained by the Product Data Reporting and Evaluation Program under the guidance of Naval Sea Logistics Center Portsmouth's Deputy Functional Manager and the Automated Information System Manager.

The AM user guide is intended to be used as a technical reference document to assist users with system navigation and basic operational functionality within PDREP-AIS. Questions, comments or concerns regarding the AM module or this guide should be directed to the PDREP Customer Support Desk.

NSLC Portsmouth Help Desk

Contact us by submitting a help desk ticket either via the "Contact Help Desk" button in the lower right corner of our PDREP website or via the "Help" menu within the PDREP-AIS Application.