



DLA Supply Chain Alliance Conference & Exhibition



REVERSE ENGINEERING

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Reverse Engineering (RE)

A process by which parts are examined and analyzed to determine how they were manufactured for the purpose of developing a complete technical data package.

The normal expected result of reverse engineering is the creation of a technical data package suitable for manufacture of an item by new sources.





Agenda

Review Parts Purchase or Borrow (RPPOB) Program

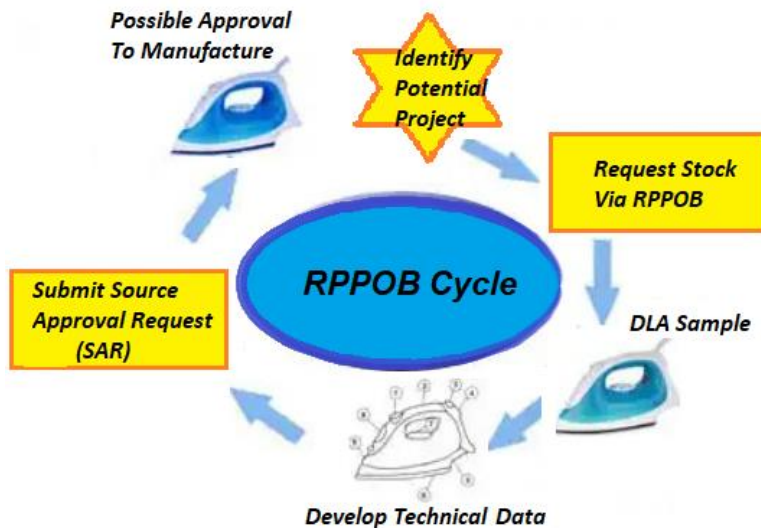
Review Source Approval Request (SAR) Process/Guidance

RE Panel Discussion with Q/A



RPPOB

- The RPPOB program supports reverse engineering and is designed to allow vendors to visually inspect, borrow or purchase Government owned material with the intent of becoming an approved source
- Goal is to develop new sources
- Reference the Alternate Source information provided later





RPPOB Program Steps Summary

- You request item(s) via electronic request
- To help you with your business decision we inform you of:
 - Demand information
 - Your cost to purchase the item(s)
 - Any available data
- You determine if you wish to proceed
 - Military Service concurrence is required prior to Cat IV SARs for many items
- We forward you a contract for the purchase or borrow of the item(s)



RPPOB Program Steps (cont.)

- You return the signed contract and payment for the item(s)
- We ship the item(s) to you, and you conduct the reverse engineering at your own expense
- You prepare a Source Approval Request (SAR) per the Source Approval Request (SAR) Guide and submit it to us following the guidance found at <https://www.dla.mil/Small-Business/Resources/>
- We forward your SAR to the appropriate Military Service for review/approval
- Example SAR:
<https://www.dla.mil/Portals/104/Documents/LandAndMaritime/V/VE/SARTemplate.pdf>



RPPOB Restrictions Summary

- RPPOB is **not available** on NSNs with Acquisition Method Suffix Codes (**AMSC**) of **G, T**, any specification-controlled items, or when there is a lack of return (<\$10,000 anticipated Annual Demand)
- **Not available** on Source Controlled NSNs, **AMSC B** – Have to go to DCA to become qualified, and items where complete approved TDPs are available, **some AMSC C** items
- Only available to Domestic Business concerns
- You can check for AMSC codes at this website <https://www.dla.mil/Information-Operations/Services/Applications/PUB-LOG/>. Under the tab "MOE Rule" is AMSC
- The definitions for AMSC codes can be found at https://www.acq.osd.mil/dpap/dars/dfars/html/r20060412/appendix_e.htm#E-201.2



DLA RPPOB Points of Contacts

- DLA Land and Maritime POC:
 - RPPOB Email: dscclpartrequest@dla.mil
 - Required information: Your name, Your Company Name, Phone Number, Shipping Address, NSN (in subject line too), and **CAGE Code**
 - List of NSN available on:
<http://www.landandmaritime.dla.mil/offices/valuemanagement/>
- DLA Aviation POC:
- RPPOB Email: dscr.boc@dla.mil
 - All requests have to be made through the website:
<https://www.dla.mil/Aviation/Offers/Engineering/RPPOB/>



Source Approval Request (SAR) and Alternate Offer (AO)

Source Approval Request (SAR)

- Package of information provided by a prospective new supplier to become an approved source for procurement of a National Stock Number (NSN) item
- Must contain all technical data needed to demonstrate competence to manufacture the NSN to the same, or better, level of quality than the current approved source(s)
- Material must be currently procured on an “other than full and open competition” basis (AMSC other than G or T)

Alternate Offer (AO)

- Submitted for evaluation against an active solicitation in order for a company and their product information to be reviewed, potentially qualifying them as an “Approved Source” on the current (and future) solicitations



SAR/AO Package Considerations

- Acquisition Method Code (AMC) / Acquisition Method Suffix Code (AMSC)
- Category
 - Category 1 – Same Part
 - Category 2 – Similar Part
 - Category 3 – New Part/Manufacturer
 - Category 4 – Reverse Engineered Part
- SAR Guidance:
 - DLA L&M: <https://www.dla.mil/Land-and-Maritime/Offers/Technical-Support/Value-Management/#source-approval-request>
 - DLA AVN: <https://www.dla.mil/Small-Business/Resources/> under the DLA Aviation Resources section





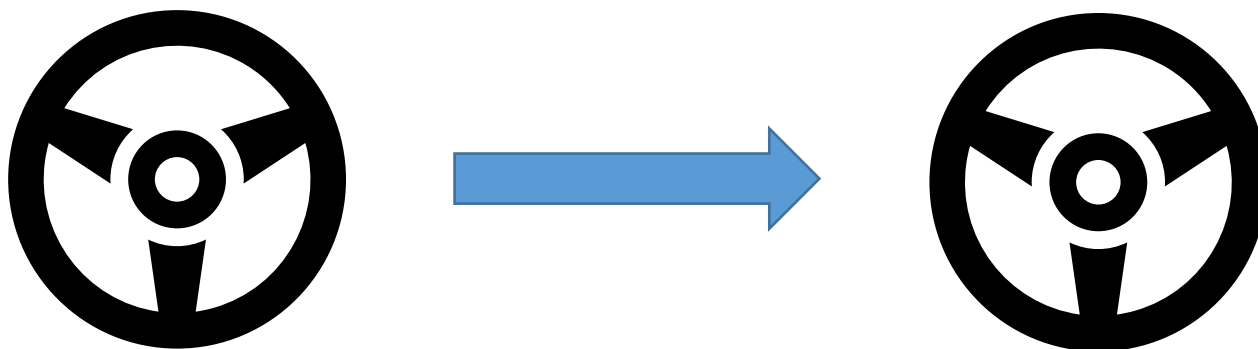
Service Specific SAR Guidance

- Each Service also has their own SAR guidance and some have specific requirements separate from the other Services. Please ensure these are followed in addition to DLA's guidance.
- NAVAIR SAR: <https://www.navsup.navy.mil/NAVSUP-Enterprise/NAVSUP-Weapon-Systems-Support/Business-Opps/>
- AF SAR: <https://www.tinker.af.mil/Home/429SCMS-SASPO/>
- Army: <https://www.avmc.army.mil/Directorates/SRD/SAR/>



AO/SAR Categories

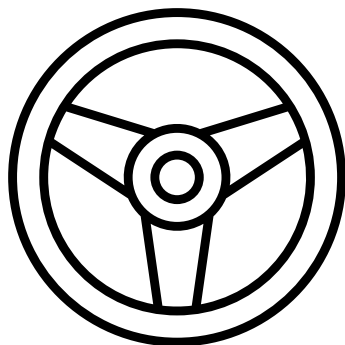
- **Category I – Same Part:** A company may submit a Category I package if they make the exact part





AO/SAR Categories, cont'd

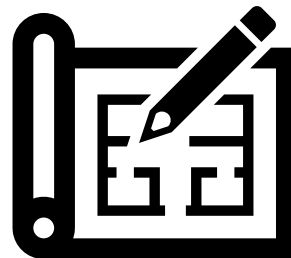
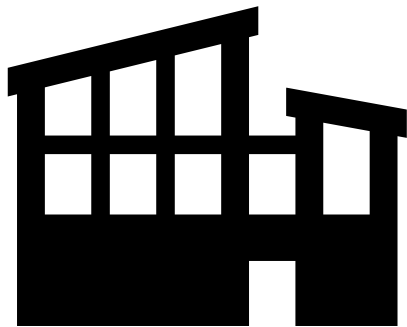
- **Category II - Similar Part:** A company may submit a Category II package if they make a similar part and can prove they have the capability to make the exact part





AO/SAR Categories, cont'd

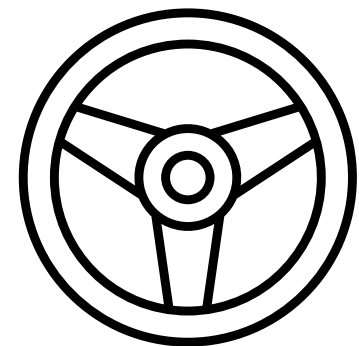
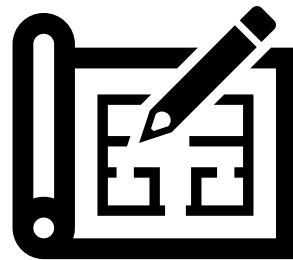
- **Category III - New Part/Manufacturer:** This category covers items that do not meet Category I or II criteria, but the company may have capabilities to make the exact part and can fully demonstrate those capabilities





AO/SAR Categories, cont'd

- **Category IV – Reverse Engineered Part:** This category covers items that do not meet Category I, II, or III criteria; do not possess the technical data for the item, and are submitting for source approval by means of reverse engineering (done at the expense of the supplier)





DLA RPPOB/AO/SAR Point of Contacts

- DLA Land and Maritime:

- AO/SAR submission dsccao-sar@dla.mil
- Technical Issues (Engineering/Analysts) ve.sar@dla.mil
- RPPOB DSCC.PartRequest@dla.mil
- Land and Maritime Small Business Office SMBIZLandCOLS@dla.mil

- DLA Aviation:

- DLA Aviation SAR analyst: dlaavnsmlbus@dla.mil
- RPPOB Email: dscr.boc@dla.mil
- All requests have to be made through the website: <https://www.dla.mil/Aviation/Offers/Engineering/RPPOB/>



Panel Discussion

- Reverse Engineering
 - Eric Wilde - DLA Land and Maritime
 - Matthew Borsinger - DLA Aviation
 - Bret Torgerson – McNally Industries





DLA AVN Display Room



