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| **Title:** | Clarifying the definition of Lubrication and Servicing | | |  | Applies To: | |
| MSG-3 Vol 1 | X |
| MSG-3 Vol 2 | X |
| **Submitter:** | MPIG | | | IMPS |  |
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| **Issue:** | | | | | | |
| The current definition of Lubrication and Servicing in MSG-3 document is either incomplete or ambiguous, thus needs clarification. | | | | | | |
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| **Problem:**  In MSG-3 document, Appendix A. Glossary, Lubrication & Servicing is defined as follows (Visual check and Discard are listed for reference):   |  |  | | --- | --- | | **Lubrication and Servicing** | Any act of lubricating or servicing for the purpose of maintaining inherent design capabilities. | | **Visual Check** | A visual check is an observation to determine that an item is in its intended state. Does not require quantitative tolerances. This is a failure finding task with obvious pass/fail criteria. | | **Discard** | The removal from service of an item at a specified life limit. |   The problem is：The first half of definition is simply repeating the terms and the second half doesn’t target to the terms themselves (other task types like FNC may also “for the purpose of maintaining inherent design capabilities”). So, the definition is not precise enough, thus engineers may have different understanding and generate different task types for the same/similar failure causes. Here below are some examples collected from the industry.  SVC vs. VCK   |  |  |  | | --- | --- | --- | | Task Type | Interval | Task Description | | SVC | 400FH | IDG oil system servicing (replenish as required) | | SVC | 700FH | CHECK OIL LEVEL OF VARIABLE FREQUENCY GENERATOR (VFG) AND ADD OIL AS REQUIRED | | VCK | 700FC | VISUAL CHECK OF SHIMMY DAMPER OIL GAUGE | | VCK | 14DY | VISUAL CHECK OF PASSENGER/CREW ENTRY DOORS EMERGENCY OPERATION CYLINDER GAS PRESSURE GAUGE TO VERIFY IT IS IN NORMAL RANGE |   SVC vs. DIS   |  |  |  | | --- | --- | --- | | Task Type | Interval | Task Description | | SVC | 6000FC | Replace nose landing gear oil | | SVC | 4000FC | SERVICING OF MAIN LANDING GEAR SHOCK STRUT(REPLACE HYDRAULIC OIL) | | DIS | 800FH | Replace the oil in IDG oil system | | DIS | 1500FH | DISCARD VARIABLE FREQUENCY GENERATOR (VFG) LUBRICATION OIL |   In addition to the above confusions, some engineers believe that lubrication is a type of servicing work. | | | | | | |
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| **Recommendation (including Implementation):** | | | | | | |
| Define the lubrication and servicing independently and precisely. Here below are the suggestions:   |  |  | | --- | --- | | Lubrication | The process of applying a lubricant directly to an item. | | Servicing | Any work such as draining/replenishing/replacing of consumables. |   The above suggestions are trying to achieve the following goals:   1. The lubrication should be clearly separated from servicing; 2. For task type pair ”SVC vs. VCK” examples discussed above, tasks that determine the need for replenishment prior to the actual act of replenishment should not be considered as SVC, but VCK; 3. For task type pair ”SVC vs. DIS” examples discussed above, tasks that replace the consumables(such as lubricating oil, hydraulic oil) are recommended to select SVC task type instead of DIS. | | | | | | |
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| **IMRBPB Position:** | | | | | | |
| **Date:** | |  | | | | |
| **Position:** | |  | | | | |
| **Recommendation for Implementation:** | |  | | | | |
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| **Status of the Issue Paper:** | |  | Active | | | |
|  | Incorporated in MSG-3 / IMPS (with details) | | | |
|  | Archived | | | |