

DATA ITEM DESCRIPTION

Title: OEM MAINTENANCE HISTORY DATA

Number: DI-PSSS-82325A

AMSC Number: N10199

DTIC Applicable: No

Preparing Activity: SA

Applicable Forms: None

Approval Date: 20201027

Limitation: None

GIDEP Applicable: No

Project Number: PSSS-2020-010

Use/Relationship: The Original Equipment Manufacturer (OEM) Maintenance History Data will be used to track parts usage, categorize failures, identify test failures, quantify instances of No Fault Found, document Repair Turn-Around Time, link repaired items back to removal from the end item, and provide the U.S. Government with data for use in failure analysis.

This Data Item Description (DID) contains the format, content, and intended use information for the data deliverable resulting from the work task described in the contract.

This DID supersedes DI-PSSS-82325.

Requirements:

1. Reference Documents. None.
2. Format. The OEM Maintenance History Data shall contain two Maintenance History Data files that adhere to the following characteristics so that they can be imported into U.S. Government databases:
 - a. Formatted as a pipe delimited text file
 - b. Trimmed field values (no spaces at beginning or end of field values)
 - c. Inclusion of every field listed in this DID; if no data is available for field, leave null between pipe separators
3. Content. OEM Maintenance History Data shall consist of two files:
 - a. **Inducted_Assembly_Maintenance.csv**

This table shall include a single record for each maintenance action *completed* since the last submission. There shall be *one record for each inducted assembly*. In the event that previously reported records have been updated during the interval since the last extract, those updated records shall also be included in the incremental file. This file shall include the fields, formats, and any data specifications listed in Table 1, below.
 - b. **Sub_Assembly_And_Piece_Parts.csv**

This table shall include a single record for each sub-assembly and a single record for each piece part replaced or repaired in conjunction with the completed maintenance actions reported in 3.a. Inducted_Assembly_Maintenance. There shall be *one record for each sub-assembly*, and *one for each piece part* repaired or replaced as part of the overall maintenance action on the inducted assembly. This file shall include the fields, formats, and any data specifications listed in Table 2, below.

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Table 1. Inducted_Assembly_Maintenance.csv Fields

In Table 1 and Table 2, fields that are identified as Required (R) shall always be populated with valid data. Fields that are identified as Conditional (C) are data elements that may not always have data availability. If related data does exist, these fields shall be populated. If related data does not exist, the field shall contain a null value.

Field Name	Required, Conditional	Data Type	Description	Format/Notes
As_Of_Reporting_Date	R	Date	The date used as a cut-off for selecting completed maintenance actions for the data extract.	
CAV_RCDN	R (for Navy OEMs)	Varchar	14 character Repair Cycle Document Number (RCDN) assigned by the Naval Supply Systems Command (NAVSUP) Commercial Assets Visibility (CAV) system.	This field shall be populated for all NAVSUP maintenance contracts. The RCDN (e.g., Q9877071174788) is comprised of three parts: <ul style="list-style-type: none"> • Department of Defense Activity Address Code (DoDAAC) for the OEM facility • Julian date • Serial number
OEM_Repair_ID	R	Varchar	Unique identifier for this maintenance action from the OEM's maintenance/repair database.	This value is necessary to link Inducted_Assembly_Maintenance record to related records in Sub_Assembly_And_Maintenance_Parts.
Inducted_Assembly_NIIN	R	Varchar	The nine-digit National Item Identification Number assigned to the inducted assembly.	
Inducted_Assembly_PN	R	Varchar	Complete, unabbreviated manufacturer's part number of the inducted assembly.	
Inducted_Assembly_Name	R	Varchar	Descriptive name associated with the part number of the inducted assembly.	
Inducted_Assembly_SN	R	Varchar	Complete, unabbreviated manufacturer's serial number of the inducted assembly.	
Inducted_Assembly_Mfr_CAGE	C	Varchar	Commercial And Government Entity code of the manufacturer of the inducted assembly, if known.	

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Field Name	Required, Conditional	Data Type	Description	Format/Notes
MCN	C	Varchar	The Maintenance Action Form (MAF) Control Number (MCN) on the Maintenance Action Form attached to the inducted assembly when transferred to OEM, if known. <i>Note: Each agency using this DID should tailor this field to match the identifier for their own organic maintenance tracking system.</i>	Required if a MAF is included with the inducted assembly.
JCN	C	Varchar	The Job Control Number on the MAF attached to the inducted assembly when transferred to OEM, if known. <i>Note: Each agency using this DID should tailor this field to match the identifier for their own organic maintenance tracking system.</i>	Required if a MAF is included with the inducted assembly.
Failure_Date	C	Date	Date that the component failed, if known.	Format: MM/DD/YYYY
Type_Equipment_SRD	C	Varchar	Type Equipment Code (TEC) used on U.S. Government systems to designate the model vehicle on which the part failed, if known.	Example: AMAJ to represent F/A 18-F.
TMS_MDS	C	Varchar	The Type/Model/Series OR Mission Design Series of the vehicle on which the part failed, if known.	Example: FA18-F, F/A18F, FA18F, F-15C, F-22, etc.
BUNO_Serial_Number	C	Varchar	Identification number of vehicle or end item on which part failed, if known.	
Usage_Unit_of_Measure	C	Varchar	Identifies whether usage, <i>as recorded on failed part</i> , is measured in hours of operation or in cycles/events. For example, some parts' usage could be a count of catapults or traps. This type of measurement would be considered "cycles."	Required for assemblies that have usage meters. Valid values: <ul style="list-style-type: none"> • AFH Aircraft Flight Hours • CYC Cycles • EFH Engine Flight Hours • RNDS Rounds • LNDG Landings • CAT Catapults • ARRES Arrests

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Field Name	Required, Conditional	Data Type	Description	Format/Notes
Usage_Reading_On_Induction	C	Numeric	Actual value, <i>as recorded on failed part</i> , at induction. Include decimal if applicable.	Required for assemblies that have usage meters.
Usage_Reading_On_Completion	C	Numeric	Actual value, <i>as recorded on failed part</i> , at completion. Include decimal if applicable.	Required for assemblies that have usage meters.
Pre-Induction_Failure_Mode	R	Varchar	Cause of failure identified during pre-induction testing and any displayed or recorded fault codes. This field shall contain meaningful words, not a code from the OEM's maintenance tracking system.	
Pre-Induction_Diagnosis_Method	R	Varchar	Type of pre-induction testing that was performed (e.g., Built-In Test) to determine the failure mode. This field shall contain meaningful words, not a code from the OEM's maintenance tracking system.	
Final_Test_Result	R	Varchar	Result of last test performed as part of investigation closure. This field shall contain meaningful words, not a code from the OEM's maintenance tracking system.	
Final_Diagnosis_Method	R	Varchar	Last test performed as part of investigation closure. This field shall contain meaningful words, not a code from the OEM's maintenance tracking system.	
SW_FW_Version_On_Induction	C	Varchar	Software or firmware version on the assembly, if applicable, when the OEM inducts it.	
SW_FW_Version_On_Completion	C	Varchar	Software or firmware version on the assembly, if applicable, when the OEM returns it.	
Investigation_Closure	R	Varchar	Identify how the repair action was closed.	Valid values: <ul style="list-style-type: none"> • Beyond repair • Beyond economic repair • Could not duplicate • Repair • Replace • Reseat • Rework or overhaul

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Field Name	Required, Conditional	Data Type	Description	Format/Notes
Detailed_Repair_Desc	R	Varchar	Procedure or steps taken plus any notes made during process of testing and repairing failed part/component.	
ECP_Incorporation	C	Varchar	Identification numbers for any Engineering Change Proposals (ECP) that the OEM incorporated as part of the maintenance action. If multiple ECPs were incorporated, include the ECP numbers as comma-separated values.	Required if one or more ECPs were incorporated as part of maintenance.
Incidental_Repairs	C	Varchar	Identify additional repairs, if any, over and above those directly related to the reported failure.	

Table 1

Table 2. Sub_Assembly_And_Piece_Parts.csv Fields

Field Name	Required, Conditional	Data Type	Description	Format/Notes
OEM_Repair_ID	R	Varchar	Unique identifier for this maintenance action from the OEM's maintenance/repair database.	
Record_Type	R	Varchar	Identify whether the record identifies a sub-assembly or a piece part that was repaired or replaced in the maintenance action.	Required if the OEM replaced or repaired any sub-assemblies or components in the maintenance of the inducted assembly. Valid values: <ul style="list-style-type: none"> • Reset • Rework or overhaul
Sub_Assembly_Piece_Part_NIIN	R	Varchar	The nine-digit National Item Identification Number assigned to the sub-assembly or piece part.	Required if the OEM replaced or repaired any sub-assemblies in the maintenance of the inducted assembly.
Sub_Assembly_Piece_Part_PN	R	Varchar	Complete, unabbreviated Part Number for the sub-assembly or piece part.	Required if the OEM replaced or repaired any components in the maintenance of the inducted assembly.

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Field Name	Required, Conditional	Data Type	Description	Format/Notes
Sub_Assembly_Piece_Part_Name	R	Varchar	Descriptive name associated with the sub-assembly or piece part.	Required if the OEM replaced or repaired any components in the maintenance of the inducted assembly.
Sub_Assembly_Piece_Part_CAGE	C	Varchar	Commercial And Government Entity code of the manufacturer of the sub-assembly or piece part, if known.	
Sub_Assembly_Piece_Part_SN	C	Varchar	Complete, unabbreviated serial number of the sub-assembly or piece part. Required if the sub-assembly is serialized.	Required if the OEM replaced or repaired any sub-assemblies in the maintenance of the inducted assembly.
Piece_Part_Reference_Symbol	C	Varchar	Alphanumeric code used to identify piece parts as distinct from other items of the same part number in a single subassembly or circuit, such as four of the same diodes within a circuit; each has the same part number but a different reference symbol.	
Failed_Item	R	Y/N	Was the failure attributable directly to the sub-assembly or piece part?	Every sub-assembly and piece part record shall have a Y or N.
Quantity	R	Varchar	Quantity of this piece part that the OEM repaired or replaced on the assembly in the maintenance action.	Every component record shall have a quantity of at least 1.
Repaired_Replaced	R	Varchar	Identify whether the OEM repaired or replaced the sub-assembly or piece part.	Valid values: <ul style="list-style-type: none"> • Repair • Replace

Table 2

End of DI-PSSS-82325A