

DATA ITEM DESCRIPTION

Title: OEM MAINTENANCE HISTORY DATA

Number: DI-PSSS-82325

AMSC Number: N10190

DTIC Applicable: No

Preparing Activity: SA

Applicable Forms: None

Approval Date: 20200701

Limitation: None

GIDEP Applicable: No

Project Number: PSSS-2020-007

Use/Relationship: The 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 Navy with data for use in failure analysis.

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

Requirements:

1. Format. The two OEM Maintenance History Data files shall have following characteristics so that they can be imported into Navy 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

2. Content. OEM Maintenance History Data shall consist of two files:

a. **Inducted_Assembly_Maintenance.csv**

This table shall include a single row/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.

b. **Sub_Assembly_And_Maintenance_Parts.csv**

This table shall include a single row/record for each sub-assembly or component replaced or repaired in conjunction with the completed maintenance actions reported in Inducted_Assembly_Maintenance. There shall be *one record for each sub-assembly* and *one for each component* 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.

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Inducted_Assembly_Maintenance Fields

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	Varchar	14 character Repair Cycle Document Number (RCDN) assigned by the Commercial Assets Visibility (CAV) system when the OEM successfully records receipt of the part.	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_PN	R	Varchar	Complete, unabbreviated manufacturer's part number of the inducted assembly.	
Inducted_Assembly_Ref_Des	C	Varchar	The reference designator assigned to the inducted assembly.	Applies only to electronic components; uniquely identifies the component within an electrical schematic or on a printed circuit board.
Inducted_Assembly_Mfr_CAGE	C	Varchar	Commercial And Government Entity code of the manufacturer of the inducted assembly, if known.	
Navy_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.	Required if a MAF is included with the inducted assembly.
Navy_JCN	C	Varchar	The Job Control Number on the MAF attached to the inducted assembly when transferred to OEM, if known.	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

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Field Name	Required, Conditional	Data Type	Description	Format/Notes
Type_Equipment	C	Varchar	NAVAIR's Aircraft Type Equipment Code (TEC) of the aircraft on which the part failed, if known.	Example: AMAJ to represent F/A 18-F.
Type_Model_Series	C	Varchar	The Type/Model/Series of the aircraft on which on which the part failed, if known.	Example: FA18-F, F/A18F, FA18F etc.
BUNO	C	Varchar	Serial number of aircraft 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"> • Cycles • Hours • Unknown
Usage_Since_New	C	Numeric	Cumulative usage since the part was manufactured, <i>as recorded in documentation submitted with assembly</i> . Include decimal if applicable.	Required for assemblies that have usage meters.
Usage_Since_Repair	C	Numeric	Cumulative usage since the part was last repaired, <i>as recorded in documentation submitted with assembly</i> . Include decimal if applicable.	Required for assemblies that have usage meters.
Usage_Since_Overhaul	C	Numeric	Cumulative usage since the part was last overhauled, <i>as recorded in documentation submitted with assembly</i> . Include decimal if applicable.	Required for assemblies that have usage meters.
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 must contain meaningful words, not a code from the OEM's maintenance tracking system.	

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Field Name	Required, Conditional	Data Type	Description	Format/Notes
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 must 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 must 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 must 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
Detailed_Repair_Desc	R	Varchar	Procedure/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 any additional repairs, if any, over and above those directly related to the reported failure.	

Table 1

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Sub_Assembly_And_Maintenance_Parts 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.	
Sub_Assembly_PN	R	Varchar	Complete, unabbreviated part number of the sub-assembly.	Required if the OEM replaced or repaired any sub-assemblies in the maintenance of the inducted assembly.
Sub_Assembly_Name	R	Varchar	Name of the sub-assembly.	Required if the OEM replaced or repaired any sub-assemblies in the maintenance of the inducted assembly.
Sub_Assembly_NIIN	R	Varchar	The nine-digit National Item Identification Number assigned to the sub-assembly.	Required if the OEM replaced or repaired any sub-assemblies in the maintenance of the inducted assembly.
Sub_Assembly_SN	R	Varchar	Complete, unabbreviated serial number of the sub-assembly.	Required if the OEM replaced or repaired any sub-assemblies in the maintenance of the inducted assembly.
Sub_Assembly_Ref_Des	C	Varchar	The reference designator assigned to the sub-assembly.	Applies only to electronic components; uniquely identifies the component within an electrical schematic or on a printed circuit board.
Sub_Assembly_Mfr_CAGE	C	Varchar	Commercial And Government Entity code of the manufacturer of the sub-assembly, if known.	
Component_PN	R	Varchar	Complete, unabbreviated Part Number for the component.	Required if the OEM replaced or repaired any components in the maintenance of the inducted assembly.
Component_SN	R	Varchar	Complete, unabbreviated Serial Number for the component, if applicable.	Required if the OEM replaced or repaired any components in the maintenance of the inducted assembly.
Component_Name	R	Varchar	Name of the component.	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
Component_Mfr_Name	C	Varchar	Name of the manufacturer of the component, if known.	
Component_Ref_Des	C	Varchar	The reference designator assigned to the component.	Applies only to electronic components; uniquely identifies the component within an electrical schematic or on a printed circuit board.
Failed_Component	R	Y/N	Was the failure attributable directly to the component?	Every component shall have a Y or N.
Quantity	R	Varchar	Quantity of this component that the OEM repaired or replaced on the assembly in the maintenance action.	Every component shall have a quantity of at least 1.
Repaired_Replaced	R	Varchar	Identify whether the OEM repaired or replaced the component(s).	Valid values: <ul style="list-style-type: none"> • Repair • Replace

Table 2

End of DI-PSSS-82325