

**ATTACHMENT 0006
LEVEL OF REPAIR ANALYSIS (LORA)**

1. COMPASS. COMPASS is the Army approved system-level LORA model. This program is available to all U.S. Government offices and their contractors working under a current contract. The Contractor may obtain the COMPASS software at: <https://www.logsa.army.mil/lec/compass/>

Software training on is available to the contractor. The Contractor may schedule training by contacting: Mark Patrizi at phone number (256) 955-6310 or email: mark.patrizi@us.army.mil.

Data elements for the input spreadsheet shall be completed as indicated below.

Field	Definition	Status	Applied To
Item	Item type to be created in COMPASS database (must be LRU, NLRU, SRU, or NSRU)	Required	All
Nomenclature	Item nomenclature, required if name preference is set to "Nomenclature" in input database	Required	All
FGC	Item FGC, required if name preference is set to FGC" in input database "	Required	All
Part Number	Item Part Number, required if name preference is set to Part Number" in input database "	Required	All
NIIN	Item NIIN, required if name preference is set to NIIN" in input database "	Required if available	All
CAGE	CAGE code	Required	All
SMR	Source, Maintenance, and Recoverability code	Optional	All
Unit Price	Item unit price	Required	All
False Removal Rate	Item false removal rate	Required	All
Washout Rate	Item washout rate	Required	All
Unit Weight	Item packaged shipping weight	Required	All
Avg Price of Parts	Average price of piece (repair) parts for an item	Required	All
MTTR	Item Mean Time To Repair; part of item repair alternative	Required	All
Diagnostic Time	Item Diagnostic Time; part of item repair alternative	Required	All
TPS Dev Cost	Test Program Set (TPS) Development Cost; part of item repair alternative	Required	All
TPS Main Cost	TPS Maintenance Cost; part of item repair alternative	Required	All
Pages of Doc	Number of pages of technical documentation for an item; part of item repair alternative	Required	All
LRU Association	Name of LRU which the SRU/NSRU is associated	Required	SRU/NSRU
MTBF	Mean Time Between Failure for item	Required	NLRU/SRU/NSRU

2. Addition information for completing the LORA effort.

- a. The first step in the process is to develop a LORA candidate list; initial candidate list shall all include repairable item/components, a copy of this list shall be provided to the government.

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- b. The initial candidate list shall include all repairable item/components, when analyzed if they are determined not to be viable LORA candidates. These components will be annotated as not applicable (N/A).
- c. Levels of Maintenance – For the purpose of this effort the following levels shall be used Field Maintenance (DS), Sustainment Maintenance (DEPOT and Contractor).
- d. Remove/Replace and Repair Time - The current commercial repair/replace times will be used. If times are not available, times shall be estimated using MIL-HDBK-470A.
- e. Failure Rates – The current commercial failure rates will be used for the initial/baseline results. The failure rates shall be increase as stated elsewhere in this attachment.
- f. Unknown DATA - Elements that do not have current or know data shall use historical data for that item/component or a like item/component; data shall be either commercial or military.
- g. Special Tools – All individual Special Tools needed for repair tasks shall be added under Support Equipment. Support Equipment shall be incorporated in each evaluation.
- h. All data shall be entered in COMPASS and be as complete as possible, this is to ensure that the evaluations are correct as possible.

3. Evaluations to be completed for this effort

- a. Non-Economic Evaluation
- b. Economic Evaluation
- c. Sensitivity and Trend Analysis – The Parameters that are to be adjusted for these analyses see below list.

Mean Time Between Failure (MTBF) - shall be +/- 30 percent

Operating Hours – Shall be +/- 120 percent

Mean Time To Repair (MTTR) – shall be +/- 30 percent

For all Evaluations listed above the contractor shall provide a Front End Analysis (FEA) and Maintenance Policy for each evaluation completed, addition analysis's and or policies may be required and will be specified below .

- d. Analysis: N/A
- e. Policy: N/A