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***The Big Picture in the COTS / NDI Environment***

**Exercise No. 1**

**Reliability**

**Basics:**

Failure Rate (FR) = failures per million hours (fpmh)

Mean Time Between Failures (MTBF) = hours to predicted failure event

Conversions:

1M / FR = MTBF

1M / MTBF = FR

Refer to the Reliability Analysis Center (RAC) attachment for Environment Conversions

***EXERCISE***

OEM provided data for a COTS LRU:

* High Band Assembly
* FR advertised/reported as 25 fpmh
* MIL-HDBK-217F model – OEM applied the **Ground Benign Environment**

Convert the OEM provided FR to the Mission Environment, **Ground Mobile Environment**