

#### M734 Critical Defect Plan

Critical defect control plan: the supplier or its subcontractors shall establish and maintain a documented plan containing written procedures to prevent the occurrence of critical defects, the control of product found to contain critical defects, and the handling of suspect material to assure compliance of all critical characteristics in accordance with contractual requirements. The supplier or its subcontractor's procedures require submittal and approval by L-3 Fuzing & Ordnance Systems and must be accepted prior to production. These procedures shall not be changed without prior approval from L-3 Fuzing & Ordnance Systems. Provide these procedures through the L-3 Fuzing & Ordnance Systems Purchasing Agent. The procedures shall address the following:

- Complete explanation of the potential failure mode (s) together with sufficient supporting historical information to enable the evaluation of the process.
- Pre-established plan of action to be taken when a critical defect occurs and a procedure to prevent such a defect from becoming mixed with acceptable product.
- Means of tracking defect occurrences (rates), investigative results, and corrective actions taken.
- Method to verify that a produced critical defect falls into the identified failure mode and does not exceed the historical defect rate.
- Plan for long-term corrective action to provide process improvements and controls.

Non-conformances to critical characteristics are considered critical defects and shall not be accepted through Material Review Board actions.

Critical Defect Actions – In the event that a critical defect is found at any point in the production process, whether by the prime contractor, a subcontractor, a sub tier supplier to a subcontractor or the government, the following actions shall be taken:

- The defective item shall be immediately rendered unusable without affecting or impairing defect analysis.
- Production of the affected component, subassembly or assembly shall STOP IMMEDIATELY, operations involved in the creation of the defect shall stop, and L-3 Fuzing & Ordnance Systems shall be notified immediately.
- The local government quality assurance representative (QAR) shall be notified after L-3 Fuzing & Ordnance Systems has first been notified.
- Written preliminary findings pertinent to the defect shall be submitted to L-3 Fuzing & Ordnance Systems within 24 hours of the occurrence. Copies of this notification shall be furnished to the local QAR.

- All suspect material shall be segregated and shall not be used for further production without authorization by L-3 Fuzing & Ordnance Systems. The subcontractor shall conduct an investigation to assess the extent of product affected and the results shall accompany the requests to use any suspect material.
- A detailed investigation and analysis shall be conducted to determine the cause of the defect, Corrective Action to prevent further manufacture of the critical defect shall be instituted.
- A request to restart production operations along with supporting documentation (i.e. investigation results, screening information, corrective action, etc.) shall be submitted to L-3 Fuzing & Ordnance Systems for approval. Copies shall be submitted to local QAR only after L-3 Fuzing & Ordnance Systems has reviewed/approved of request. QAP-56 2
- Restart shall begin only after approval to restart has been issued by L-3 Fuzing & Ordnance Systems and any conditions or restrictions associated with the approval are satisfied.

Definition: Critical characteristic – an attribute of a system, item, assembly, subassembly, component or material that judgment and experience indicate must be met to avoid hazardous or unsafe conditions for individuals using, maintaining or depending upon the project; or that judgment and experience indicate must be met to assure performance of a major item such as a tank