ELECTROMET

Critical Enclosure Design Specifications

Additional information can be found at www.electromet.com

1. What is the intended functional use for the enclosure?

- **Surface Ship**
- **Submarine**
- **Aircraft**
- **Mobile Vehicle**
- **Land Based**

2. For Defense applications, identify ALL MIL-specifications and MIL-standards to be met

3. Survivability:

- **What environmental conditions are required to be met?**
  - **Shock (MIL-S-901D) _____**
    - **Deck Frequency of concern (Hz) _____**
    - **System designation Type _____ Grade _____**
    - **Mounting requirement:**
      - **Hard Deck Mounted _____**
      - **External Isolation System _____**
      - **Internal Isolation System _____**
    - **Preferred Test Method**
      - **Barge _____**
      - **Shock Machine _____**
    - **How fragile is the electronic equipment to be installed?**
      - **Is there a maximum G-load to consider?**
  - **Vibration (MIL-STD-167) _____**
  - **EMI/RFI _____**
    - **Frequency Range(Hz) _____**
    - **Attenuation (db) _____**
  - **Salt Spray _____**
  - **Drip Proof _____**
- **Who is responsible for testing?**
- **Who approves the test configuration and test plan?**
- **Will simulated weights be used?**
- **Who is responsible for generating the post-test report?**

4. **Enclosure Configuration:**
   - **What is the weight and center of gravity (CG) for each set of electronic equipment to be installed in the enclosure?**
   - **What is the total electronic equipment payload?**
   - **Will cables be supported by the enclosure rear panels?**
     - **If YES, what is the cable/harness payload?**
   - **Will cables enter the enclosure from the base?**
   - **Is front accessibility only required?**
     - **Will rear access be required?**
     - **Will maintenance and repair be accomplished via front access only?**

5. **What are the enclosure's maximum outside dimensions?**
   - **H** _____
   - **W** _____
   - **D** _____

6. **What are the enclosure's required useable inside dimensions?**
   - **H** _____
   - **W** _____
   - **D** _____

7. **Will the enclosure have?**
   - **Side Panels** _____
   - **Rear Panels** _____
   - **Front Door** _____ **Hinged (R/L)** _____
   - **Rear Door** _____ **Hinged (R/L)** _____
   - **EIA Holes: Front** _____ **Rear** _____
   - **Drip Proof Requirement** _____
   - **Humidity Requirement** _____

8. **Will the enclosure need any of the following Protective Coatings or Markings?**
   - **Chem Film** _____
   - **Primer** _____
   - **Paint** _____ **Color** _____
   - **Silkscreen** _____ **Color** _____
   - **Engraving** _____ **Fill Color** _____
   - **Stencil** _____ **Color** _____
   - **Steel Stamp** _____
   - **UID/RFID** _____
   - **Other** _____

9. Will the enclosure require any of the following documentation?

- **MIL-T-31000 _____ Level _____ QTY _____**
- **Top Assembly Drawing _____**
- **Interface Control Drawing _____**

10. Is there a design review requirement?

- **Preliminary _____**
- **Critical _____**
- **Facility Review _____**

11. What are the required construction materials?

- **Aluminum**
- **Steel**
- **Stainless Steel**
- **Composite materials**

12. Will the enclosure need any of the following specialized hardware / accessories?

- **Blowers: Type _____ CFM _____**
- **Filters:**
  - **Type _____**
  - **EMI/RFI _____**
  - **Attenuation _____**
  - **Drip Proof _____**
  - **Dust _____**
- **Slides:**
  - **Quantity _____**
  - **Payload Weight for Each _____**
  - **Slide Travel Distance for Each _____**
- **Cable Retractors _____**
- **Cable Trays _____**
- **Shelves _____**
- **Gasketing:**
  - **EMI/RFI _____**
  - **Moisture _____**