**Requirement tracability**

**SOW subcontractor to SRS**

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Company: **Company F**

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| **Requirements trace to SRS Missile Warning System ver A.pdf** | | |
| **Pod Req** |  | **SRS Req** |
| UFR-1 | The pod shall have Three compartments for dispenser magazines. | SR-33 |
| UFR-2 | The pod shall have one compartment for two magazines facing forward.  Ψ = 15⁰ φ = 15⁰ θ = 15⁰. Se figure 1. | SR-34; SR-35; SR-36 |
| UFR-3 | The pod shall have one compartment for four magazines facing sideward.  Ψ = 90⁰ φ = 15⁰. Se figure 1. | SR-37; SR-38; SR-39 |
| UFR-4 | The pod shall have one compartment for two magazines facing downwards.  φ = 90⁰ θ = 90⁰. Se figure 1. | SR-40; SR-41 |
| UFR-5 | The dimensions of the pod shall comply to the standard FP42f | SR-42 |
| UFR-6 | All electrical connections shall be accessible from the outside to ease the attachment of the pod to the aircraft and for testing on ground when not attached. | Special for this doc. |
| UFR-7 | If active cooling or other power consuming entities other than the contractor supplied MWS and DDSs are required, the total power consumption of these shall not exceed 300W at 115VAC 400Hz. | Special for this doc. |
| UFR-8 | The POD shall comply with all F-16 requirements for aerodynamics and radar reflections as specified by the F-16 POD standard *FP42f*. | SR-42 |
| UFR-9 | The ECU shall perform the built in test that is supported by this Government Furnished Equipment (*GFE*). | SR-44 |
| UFR-10 | The ECU shall report the status information available for this Government Furnished Equipment (*GFE*). | SR-45 |
| UFR-11 | The POD shall supply the status of the following LRUs:   * The Sensors * The ECU   INFO: The Magazines and DSS are not seen as LRUs and also do not have status reporting capabilities.  INFO: It is assumed that the ECU has the ability to deliver this information. | SR-46 |
| UFR-12 | The status reported by the POD as a whole shall be:   1. POD internal temperature 2. ECU operational status (OK, ERROR)   INFO: It is assumed that the ECU has the ability to deliver this information.  INFO: It is assumed that the ECU has a temperature sensor inside the POD and is able to deliver its reading on the data bus. | SR-47 |
| PR-1 | The pod structure shall be without any failures after being exposed to a steady state acceleration of 5g fore. | SR-70 |
| PR-2 | The pod structure shall be without any failures after being exposed to a steady state acceleration of 2.5g aft. | Sr-71 |
| PR-3 | The pod structure shall be without any failures after being exposed to a steady state acceleration of 25g up. | SR-72 |
| PR-4 | The pod structure shall be without any failures after being exposed to a steady state acceleration of 11g down. | SR-73 |
| PR-5 | The six sensors shall be located to cover all angles which are not shaded by the aircraft. (See Ref-2) | SR-86 |
| ER-1 | The pod structure shall be operational at temperatures of 95 ̊C on the outer skin and 102 ̊C on the leading edge for 25 minutes. | SR-67 |
| ER-2 | The pod structure shall be operational at temperatures of 134 ̊C on the outer skin and 151 ̊C on the leading edge for 3 minutes. | SR-68 |
| ER-3 | The system shall be able to keep the MWS inside the pod below 70⁰ C. | SR-69 |
| IR-1 | The attachment to the aircraft shall comply to standard PM11b. | SR-76 |
| IR-2 | The pod shall provide a EPC17d connector for 115VAC/400Hz power. | SR-83 |
| IR-3 | The pod shall provide a EDC29b connector for the data connection. | SR-58 |
| IR-4 | The pod shall provide a EDWC7f connector for discrete wires. | 3.4.1 Interface B |
| IR-5 | The dispenser magazine compartments shall interface to the magazines according to standard DM30p. | SR-78 |
| IR-7 | Power consumption of the pod shall not exceed 700W. | SR-82 |
| IR-9 | The system shall be able to supply the GEF (MWS) with maximum 85W from a 28VDC power source and a maximum of 100W from an 115VAC 400Hz power source. | SR-84 |
| SR-1 | The POD shall include a safety pin that prevents the dispenser from firing. | SR-61 |
| SR-2 | The POD safety pin shall be clearly labelled and accessible by aircraft maintenance crew as specified by the aircraft maintenance manual AMM32f. | SR-62 |
| WR-1 | The weight of POD structure shall not exceed 175 kg. | Terma case.pdf |
| WR-2 | The POD shall be able to support an 18.2kg MWS | SR-75 |
| WR-3 | The weight of the harness shall not exceed 20 kg. | Terma case.pdf |
| MR-1 | The pod shall be mounted on the aircraft wing with standard T-hooks spaced by 13 inches. | SR-76 |
| MR-2 | The pod shall be mounted on the left-hand wing. | SR-77 |
| MR-3 | The POD shall support standard NATO dispenser magazines type DM30p. | SR-78 |