**Annex A: Resource Requirements**

|  |  |
| --- | --- |
| **Type of Resource** | **Required** |
| Test Articles | 2 UAVs and fuel vehicles |
| Test Sites | Training area |
| Instrumentation | Telemetry speed camera  Standard test equipment |
| Threat systems & simulators | Threat simulators  Mock UAVs |
| Simulations/Models | Computer simulations |
| Manpower/Personnel Training | Test sites/1 week |
| Special Requirements | Data collection system at test site |
| T&E Funding | $10 million |

**Annex B: Data Sheets and Questionnaires**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test | Trial 1 | Trial 2 | Trial 3 | Trial 4 | Trial 5 | Trial 6 | Trial 7 | Trial 8 | Trial 9 |
| E-1 |  |  |  |  |  |  |  |  |  |
| Maximum altitude |  |  |  |  |  |  |  |  |  |
| Average time to maximum altitude |  |  |  |  |  |  |  |  |  |
| Average time at maximum speed |  |  |  |  |  |  |  |  |  |
| Average time at minimum speed |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| E-2 |  |  |  |  |  |  |  |  |  |
| Average set up time |  |  |  |  |  |  |  |  |  |
| Minimum set up time |  |  |  |  |  |  |  |  |  |
| Average number of people required for set up |  |  |  |  |  |  |  |  |  |
| Minimum number of people required for set up |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| E-3 |  |  |  |  |  |  |  |  |  |
| Avoidance rate |  |  |  |  |  |  |  |  |  |
| Survivability rate |  |  |  |  |  |  |  |  |  |
| Average detection time |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| E-4 |  |  |  |  |  |  |  |  |  |
| Mean time to engage enemy threat |  |  |  |  |  |  |  |  |  |
| Percent of enemy threats hit |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| E-5 |  |  |  |  |  |  |  |  |  |
| Targets successfully detected |  |  |  |  |  |  |  |  |  |
| Targets successfully classified |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| E-6 |  |  |  |  |  |  |  |  |  |
| Throughput |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| E-7 |  |  |  |  |  |  |  |  |  |
| Successful mission |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| E-8 |  |  |  |  |  |  |  |  |  |
| Avoid detection |  |  |  |  |  |  |  |  |  |
| Evade threats |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| E-9 |  |  |  |  |  |  |  |  |  |
| Target range |  |  |  |  |  |  |  |  |  |
| Target speed |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| E-10 |  |  |  |  |  |  |  |  |  |
| Lethality |  |  |  |  |  |  |  |  |  |
| Rate of fire |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Questionnaire for S-1 Interoperability

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rank: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MOS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Ease of data transfer:

\_\_Excellent \_\_Very Good \_\_Average \_\_Fair \_\_Poor

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Accuracy of data transfer:

\_\_Excellent \_\_Very Good \_\_Average \_\_Fair \_\_Poor

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Ease of manipulating data:

\_\_Excellent \_\_Very Good \_\_Average \_\_Fair \_\_Poor

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Ease of tracking data:

\_\_Excellent \_\_Very Good \_\_Average \_\_Fair \_\_Poor

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Questionnaire for S-2 HSI

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rank: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MOS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Ease of comprehension the maintenance manual:

\_\_Excellent \_\_Very Good \_\_Average \_\_Fair \_\_Poor

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Ease of seeing the visual warnings:

\_\_Excellent \_\_Very Good \_\_Average \_\_Fair \_\_Poor

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Ease of hearing the audio warnings:

\_\_Excellent \_\_Very Good \_\_Average \_\_Fair \_\_Poor

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Ease of comprehension the data on the display:

\_\_Excellent \_\_Very Good \_\_Average \_\_Fair \_\_Poor

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Annex D: Test Design Variables**

|  |  |  |
| --- | --- | --- |
| **Variable** | **Control** | **Factor Levels/Treatments** |
| Command and Control | Systematically varied | Centralized, decentralized |
| Combat System | Systematically varied | Supported, surge, and peak |
| Sensors | Systematically varied | Intermittent, continuous |
| Air Target | Tactically varied | FW, RW, UAV |
| Mission Routes | Tactically varied | Environment, threats |
| Software | Held Constant | Version 1 |
| Doctrine | Held Constant | IAW specified tactics plan |
| Training | Held Constant | IAW user |
| Logistics Support | Held Constant | IAW logistics rep |
| Communications | Held Constant | Link 16 |
| System/Equipment Failures | Uncontrolled | As occurs |
| Weather | Uncontrolled | As occurs |
| Temperature | Uncontrolled | Ambient |