Single Operator Control of Autonomous Multi-Vehicle Swarms Post-Scenario Questionnaire
This questionnaire is automatically read by a computer program. Please use a pen for filling in your answers. Check: You can check any number of boxes in selection questions. For questions with a range (1–5) choose the answer the mark that fits best.
1 NASA Task Load Index (TLX)
1.1 Mental Demand: How mentally demanding was the task?
$Very Low (0) \square \square \square \square \square \square \square \square \square $
1.2 Physical Demand : How physically demanding was the task?
Very Low (0) \square \square \square \square \square \square \square \square \square (10) Very High
1.3 Temporal Demand : How hurried or rushed was the pace of the task?
Very Low (0) \square \square \square \square \square \square \square \square \square (10) Very High
1.4 Performance : How successful were you in accomplishing what you were asked to do?
Perfect (10) \square \square \square \square \square \square \square \square \square (0) Failure
1.5 Effort: How hard did you have to work to accomplish your level of performance?
$ Very Low (0) \square \square \square \square \square \square \square \square \square $
1.6 Frustration: How insecure, discouraged, irritated, stressed, and annoyed were you?
Very Low (0) \square \square \square \square \square \square \square \square \square (10) Very High
2 UAV Swarm
2.1 Network Size : How would you rate the number of UAVs that were available to you?
\square too little \square about right \square more than necessary
2.2 Would you think that more UAVs would have made your task easier?
☐ Yes ☐ No
2.3 Which statement would you rather agree with?
\square I was mainly busy managing my swarm. \square I was mainly busy operating my primary UAV.
3 Mission Review
3.1 Strategy : Which of the following statements would best describe your initial approach to your mission?
☐ Thinking about R/F coverage first and then start placing UAVs. ☐ Starting to deploy UAVs and then watch how the coverage works out.

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3.2 Tactic : In your recollection, what would best describe the tactic you used to finish your task?
 □ (1) Place secondary UAVs to create R/F coverage to and around the target and then (2) use a yet unused UAV as the primary vehicle to complete the inspection task. □ (1) Select a primary UAV and move it towards the target and (2) deploy secondary UAV when necessary to increase the R/F coverage from the GCS to the target. □ (1) Build up R/F coverage to and around the target and then (2) use already deployed UAVs one after the other as the primary UAV to inspect the target. □ Other: Please describe briefly how you approached your mission in the textbox in question 3.4.
3.3 $\mathbf{Hindsight}$: Would you say that the final R/F coverage of your secondary UAVs turned out to be roughly how you anticipated it to be before you started moving UAVs?
☐ Agreed: Yes, the secondary UAVs roughly provided coverage where I initially thought it would end up being. ☐ Disagreed: The R/F coverage provided by the secondary UAVs didn't end up matching my expectations. ☐ Not Applicable: I didn't think about where and how the UAVs would provide coverage, I just started moving them and reacted to how the coverage was build up.
3.4 If you answered <i>Other</i> in question 3.2 please describe briefly (and legibly) how you approached your mission.
4 Performance
4.1 Scenario
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