Component Test?	Test?	When?	Metric?	Source of data?	Decision testing supports?
Hardware	•Usability •Durability •Reliability	Life of DSS, but mainly during development	Yes/no test for durability, reliability, and usability.	•Hardware test results — Manufactures results — Other tests •Durability testing in all environments	Whether hardware is reliable under any conditions
Communications	•Reliability •Throughput •Speed •Interoperability •Security	Life of DSS, external environments are constantly changing	•Bandwidth •Bits per milliseconds •Yes/no for if CBNAIR is secure and interoperable	•Smartbits •Ping tests •Other Networking and communication tools •Hackers	Whether communications would be quick and reliable in any conditions. Also that the data is secure and interoperable.
Software	•Processing Time •User Interface •Usability	Life of DSS, but mainly during development	•Time to process data •Survey answers	•Usability survey •Interviews •Mock training	Whether or not the software is user friendly under all conditions (in HAZMAT gear) and the processing time is sufficient.
Accuracy of Model	•Type of Agent •Treatment •COA	Life of DSS, continually improving on the model and updating COA	•Expert knowledge •Actual vs. predicted	•FEMA •NIH •Military •CDC •Mock training	Whether model accurately identifies the agent and provides an accurate COA.
The Overall System	•Interoperability •Overall Response time •Effectiveness	Life of DSS, continually using the results to make improvements	•Accuracy improvement •Speed improvement	•With and without technology mock training sessions	Identifies DSS weaknesses and measures the overall quality and effectiveness. Also provides feed back in where improvements to CBNAIR should be made