### Table B-1. Correlation Matrix

| Variable | Donning | Discomfort | Vision | Hearing | Speech | SA | Thinking | Decisions | Doffing |
|----------|---------|------------|--------|---------|--------|----|----------|-----------|---------|
| donning  | 1.000   | .229       | .126   | .227    | .263   | .242| .139     | .186      | .328    |
| discomfort| .229    | 1.000      | .405   | .208    | .257   | .175| .267     | .122      | .329    |
| vision   | .126    | .405       | 1.000  | .118    | .230   | .258| .232     | .165      | .279    |
| hearing  | .227    | .208       | .118   | 1.000   | .678   | .490| .117     | .263      | .144    |
| speech   | .263    | .257       | .230   | .678    | 1.000  | .605| .133     | .274      | .204    |
| SA       | .242    | .175       | .258   | .490    | .605   | 1.000|.170     | .331      | .143    |
| thinking | .139    | .267       | .232   | .117    | .133   | .170| 1.000    | .176      | .181    |
| decisions| .186    | .122       | .165   | .263    | .274   | .331| .176     | 1.000     | .068    |
| doffing  | .328    | .329       | .279   | .144    | .204   | .143| .181     | .068      | 1.000   |

| Sig. (1-tailed) |
|-----------------|
| donning         | .000 | .005 | .000 | .000 | .000 | .002 | .000 | .000 |
| discomfort      | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| vision          | .005 | .000 | .008 | .000 | .000 | .000 | .000 | .000 |
| hearing         | .000 | .000 | .000 | .000 | .000 | .000 | .009 | .000 |
| speech          | .000 | .000 | .000 | .000 | .000 | .000 | .003 | .000 |
| SA              | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| thinking        | .002 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| decisions       | .000 | .006 | .000 | .000 | .000 | .000 | .000 | .084 |
| doffing         | .000 | .000 | .000 | .002 | .000 | .002 | .000 | .084 |

SA: Situational awareness
Table B-2. KMO and Bartlett's Test

| Statistical test                                      | Value |
|-------------------------------------------------------|-------|
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy        | .764  |
| Bartlett's Test of Sphericity                         |       |
| Approx. Chi-Square                                    | 822.455 |
| df                                                    | 36    |
| Sig.                                                  | .000  |

Table B-3. Communalities

| Variable | Initial | Extraction |
|----------|---------|------------|
| Donning  | 1.000   | .278       |
| Discomfort| 1.000 | .555       |
| Vision   | 1.000   | .466       |
| Hearing  | 1.000   | .688       |
| Speech   | 1.000   | .753       |
| SA       | 1.000   | .644       |
| Thinking | 1.000   | .302       |
| Decisions| 1.000 | .273       |
| Doffing  | 1.000   | .471       |

Extraction Method: Principal Component Analysis.

SA: Situational awareness
| Component | Initial Eigenvalues | Extraction Sums of Squared Loadings | Rotation Sums of Squared Loadings |
|-----------|---------------------|-------------------------------------|----------------------------------|
|           | Total               | % of Variance | Cumulative % | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1         | 3.030               | 33.662        | 33.662       | 3.030 | 33.662        | 33.662       | 2.424 | 26.934       | 26.934       |
| 2         | 1.401               | 15.561        | 49.223       | 1.401 | 15.561        | 49.223       | 2.006 | 22.290       | 49.223       |
| 3         | .970                | 10.777        | 60.001       |       |               |              |       |              |              |
| 4         | .879                | 9.761         | 69.762       |       |               |              |       |              |              |
| 5         | .760                | 8.440         | 78.202       |       |               |              |       |              |              |
| 6         | .623                | 6.927         | 85.129       |       |               |              |       |              |              |
| 7         | .598                | 6.649         | 91.778       |       |               |              |       |              |              |
| 8         | .448                | 4.981         | 96.759       |       |               |              |       |              |              |
| 9         | .292                | 3.241         | 100.000      |       |               |              |       |              |              |

Extraction Method: Principal Component Analysis.
Figure B-1. A Scree Plot that shows the drastic decrease in the size of the Eigenvalues and helps determine the number of factors that accounts for most of the variation in the data.
| Variable    | Component |
|-------------|-----------|
|             | 1   | 2  |
| Donning     | .505 | .150 |
| Discomfort  | .548 | .505 |
| Vision      | .510 | .454 |
| Hearing     | .694 | -.454 |
| Speech      | .777 | -.386 |
| SA          | .717 | -.360 |
| Thinking    | .400 | .376 |
| Decisions   | .483 | -.200 |
| Doffing     | .470 | .500 |

Extraction Method: Principal Component Analysis.
2 components extracted.
SA: Situational awareness
### Table B-6. Rotated Component Matrix

| Variable    | Component 1 | Component 2 |
|-------------|-------------|-------------|
| Donning     | .309        | .427        |
| Discomfort  | .127        | .734        |
| Vision      | .127        | .671        |
| Hearing     | .827        | .063        |
| Speech      | .851        | .168        |
| SA          | .788        | .152        |
| Thinking    | .087        | .542        |
| Decisions   | .504        | .136        |
| Doffing     | .068        | .683        |

*Extraction Method: Principal Component Analysis.*

*Rotation Method: Varimax with Kaiser Normalization.*

Rotation converged in 3 iterations.

SA: Situational awareness
This table shows the convergent and discriminant validity:

**Table B-7. Component Transformation Matrix**

| Component | 1   | 2   |
|-----------|-----|-----|
| 1         | .793| .610|
| 2         | -.610| .793|

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.