Alternate Scenarios

Startup

a. The VPS does not turn on

1. The user restarts the system

1.a. If the system turns on

1. The VPS resumes startup operations

1.b. If the system does not turn on

1. The user must replace the battery

2. The user restarts the system

Navigation

* 1. The VPS navigates off the line.

The VPS interrupts the current navigation.

The VPS attempts to find nearby line.

2.a. If a line is found.

1. The VPS travels to the line.

2. The VPS resumes navigation.

2.b. If a line is not found.

1. The VPS reverses.

1.a. If the VPS finds a line.

1. The VPS travels to the line.

2. The VPS resumes navigation.

1.b. If the VPS finds the edge of the course.

1. The VPS scans immediate area for line

1.a. If the VPS finds a line

1. The VPS travels to the line

2. The VPS resumes navigation

2.a. The VPS does not find a line

1. The VPS is lost.

2. The VPS resumes navigation.

Simon

a. The VPS presses an incorrect button on Simon.

1. The VPS interrupts its current tasks for Simon.

2. The VPS resets Simon.

3. The VPS resumes playing Simon.

Playing Card

a. The VPS drops the playing card.

1. The VPS interrupts its current tasks for the playing card.

2. The VPS attempts to find the dropped card.

2.a. If the card is located.

1. The VPS picks up the card.

2. The VPS resumes operation before it was interrupted.

2.b. If the card is not located.

1. The VPS returns to the stack of cards.

2. The VPS picks up a new card.

3. The VPS resumes operation before it was interrupted.

Etch A Sketch

a. The VPS misplaces the Etch A Sketch.

1. The VPS interrupts its current tasks for the Etch A Sketch.

2. The VPS attempts to find the misplaced Etch A Sketch.

2.a. If the Etch A Sketch is located.

1. The VPS realigns to the Etch A Sketch

2. The VPS reattaches to the Etch A Sketch

3. The VPS resumes its interrupted task

2.b. If the Etch A Sketch is not located.

1. The VPS scans the immediate area

1.a. If the VPS locates Etch A Sketch

1. The VPS realigns to the Etch A Sketch

2. The VPS reattaches to the Etch A Sketch

3. The VPS resumes its interrupted task

1.b. If the VPS does not locate the Etch A Sketch

1. The VPS moves on to the next task

Rubik’s Cube

a. The VPS misplaces the Rubik’s Cube

1. The VPS interrupts its current task

2. The VPS attempts to find the Rubik’s Cube

2.a. If the Rubik’s Cube is found

1. The VPS aligns to the Rubik’s Cube

2. The VPS holds the Rubik’s Cube

3. The VPS resumes the interrupted task

2.b. If the Rubik’s Cube is not found

1. Scan the immediate area for the cube

1.a. If the Rubik’s Cube is found

1. The VPS aligns to the Rubik’s Cube

2. The VPS holds the Rubik’s Cube

3. The VPS resumes the interrupted task

1.b. If the Rubik’s Cube is not found

1. Navigate to next task