Appendix 3 Product End-of-Life Disassembly instructions – rev a

Product Identification:

<table>
<thead>
<tr>
<th>Marketing Name / Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP Compaq Business PC dc7600 series - USDT</td>
<td>HP business desktop PC</td>
</tr>
</tbody>
</table>

Purpose: The document is intended for use by end-of-life recyclers or treatment facilities. It provides the basic instructions for the disassembly of HP products to remove components and materials requiring selective treatment.

1.0 Items Requiring Selective Treatment

1.1 Items listed below are classified as requiring selective treatment.

1.2 Enter the quantity of items contained within the product which require selective treatment in the right column, as applicable.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Notes</th>
<th>Qty items in product.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)</td>
<td>With a surface greater than 10 square cm</td>
<td>1 (sys bd, power supply PCA)</td>
</tr>
<tr>
<td>Batteries</td>
<td>All types including standard alkaline and lithium coin or button style batteries</td>
<td>1</td>
</tr>
<tr>
<td>Mercury containing components</td>
<td>For example, mercury in lamps, display backlights, scanner lamps, switches, batteries</td>
<td></td>
</tr>
<tr>
<td>Liquid Crystal Displays (LCD) with a surface greater than 100 square cm</td>
<td>Includes background illuminated displays with gas discharge lamps</td>
<td></td>
</tr>
<tr>
<td>Cathode Ray Tubes (CRT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacitors / condensers (Containing PCB / PCT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height</td>
<td>4, 2, or 1 depending on power supply</td>
<td></td>
</tr>
<tr>
<td>External electrical cables and cords</td>
<td>SATA2, Audio, USB, PWR&amp;LED.</td>
<td></td>
</tr>
<tr>
<td>Gas Discharge Lamps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastics containing Brominated Flame Retardants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner</td>
<td>Include the cartridges, print heads, tubes, vent chambers, and service stations.</td>
<td></td>
</tr>
<tr>
<td>Components and waste containing asbestos</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components, parts and materials containing refractory ceramic fibers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components, parts and materials containing radioactive substances</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2.0 Tools Required
List the type and size of the tools that would typically be used to disassemble the product to a point where components and materials requiring selective treatment can be removed.

<table>
<thead>
<tr>
<th>Tool Description</th>
<th>Tool Size (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat blade screwdriver</td>
<td></td>
</tr>
<tr>
<td>Phillips screwdriver</td>
<td></td>
</tr>
<tr>
<td>Diagonal cutters (dikes)</td>
<td></td>
</tr>
</tbody>
</table>

3.0 Product Disassembly Process
3.1 List the basic steps that should typically be followed to remove components and materials requiring selective treatment:

**SYSTEM BOARD**

1. To remove the access panel (see Figure 1 below):
   a) Loosen the captive thumbscrew that secures the access panel to the computer chassis.
   b) Slide the top access panel back about 1.3 cm (1/2 inch), then lift it off the unit.

2. To remove the MultiBay riser card, grasp the green handle on top of the riser card assembly and lift it straight up (see Figure 2 below).
   NOTE: The riser card locks the front panel assembly in the chassis; secures the power supply in the chassis, and prevents power supply front-to-back movement.

3. To remove the front panel assembly (see Figure 3 below):
   a) Lift up on the two green locking levers on the left and right sides of the chassis. This will unlatch the front panel assembly and push it about 1.3 cm (1/2 inch) out of the chassis.
   b) Disconnect the fan and speaker cables from the system board and remove the panel assembly by pulling it straight out of the chassis.

4. To remove the heatsink (see Figure 4 below):
   a) Disconnect the thermal sensor and heatsink fan cables from the system board.
   b) Un螺丝 the four screws that secure the heatsink to the system board, and then lift the heatsink from the system board.

5. To remove the power supply (see Figure 5 below):
   a) Disconnect the power supply cable from the hard drive and the 6-pin power supply cable on the system board alongside the heatsink.
   b) Slide the power supply towards the front of the chassis (1) about 1.3 cm (1/2 inch) then slide it towards the center of the chassis and rotate it up (2) to access the main cable connection beneath it.
   c) Disconnect the power cable from the system board (3).
   d) Remove the power supply from the chassis.
   NOTE: There are slots on the chassis that match with clips on the bottom of the power supply for positive retention.

6. Disconnect any remaining cables connected to the system board.
### SYSTEM BOARD cont

7. Remove the thumbscrew that secures the system board to the chassis (1) (see Figure 6 below).

8. Slide the system board towards the front of the chassis (2), making sure that all keyhole retainers are clear before lifting the system board from the chassis.

### BATTERY

Locate the battery and battery holder on the system board. Depending on the type of battery holder on the system board, complete the following instructions to remove the battery:

<table>
<thead>
<tr>
<th>Type</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TYPE 1 BATTERY HOLDER</strong> (see Figure 7 below)</td>
<td>Lift the battery out of the holder.</td>
</tr>
<tr>
<td><strong>TYPE 2 BATTERY HOLDER</strong> (see Figure 8 below)</td>
<td>To release the battery from its holder, squeeze the metal clamp that extends above one edge of the battery. When the battery pops up, lift it out.</td>
</tr>
<tr>
<td><strong>TYPE 3 BATTERY HOLDER</strong> (see Figure 9 below)</td>
<td>Pull back on the clip that holds the battery in place, and then remove the battery.</td>
</tr>
</tbody>
</table>

### POWER SUPPLY

1. Remove any MultiBay device from the drive cage.

2. Remove the MultiBay riser card.

3. Disconnect the all power cables from all devices.

4. Slide the power supply toward the front of the chassis about 1.3 cm (1/2 inch) then slide it toward the center of the chassis and rotate it up to access the main cable connection beneath it (see Figure 10 below).

   **NOTE:** There are slots on the chassis that match with clips on the bottom of the power supply for positive retention.

5. Remove the power supply from the chassis.

### POWER SUPPLY PRINTED CIRCUIT ASSEMBLY

1. Remove the screws that secure the power supply cover (see Figures 11 to 13 below).

   **NOTE:** Power supply screw quantity and location may vary. 
   **NOTE:** You do not need to remove the screws from the fan guard or the power connector.

2. Cut the two plastic cable clamps that secure the main set of wires to the power supply (see Figures 12 & 13 below)

3. Lift the cover off the power supply.

4. Using diagonal cutters (dikes), cut the blue and brown power connector wires and cut or unplug the black fan wire (see Figure 14 below).
POWER SUPPLY PRINTED CIRCUIT ASSEMBLY cont

5 Remove the screws that secure the PCA to the power supply chassis (see Figure 15 below).

NOTE: Screw quantity and location may vary.

6 Lift the PCA out of the power supply chassis.

7 There are three different power supply PCAs. Refer to Figures 16 through 20 to determine which PCA you have and the capacitors you must cut from the board.

3.2 ILLUSTRATIONS

FIGURE 1: Removing the access panel

FIGURE 2: Removing the riser card

FIGURE 3: Removing the front panel assembly

FIGURE 4: Removing the heatsink
FIGURE 11: Power supply screw locations (may vary)

FIGURE 12: Power supply screw locations (may vary) and plastic cable clamp to cut

FIGURE 13: Screw location and plastic cable clamp

FIGURE 14: Cut/unplug wires
FIGURE 15: PCA screw locations (may vary)

FIGURE 16: Power supply PCA 1 - Cut two capacitors from board

FIGURE 17: Power supply PCA 2

FIGURE 18: Power supply PCA 2 - Cut four capacitors from board
FIGURE 19: Power supply PCA 3

FIGURE 20: Power supply PCA 3 - Cut one capacitor from board