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 - SFF</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>2 (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>6, 4, or 2 depending on power supply</td>
<td></td>
</tr>
<tr>
<td>External electrical cables and cords</td>
<td>PSU cables, IDE cables, SATA cables.</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>Small flat blade screwdriver</td>
<td></td>
</tr>
<tr>
<td>Phillips screwdriver</td>
<td></td>
</tr>
<tr>
<td>Pry bar</td>
<td>6- to 8-inch</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 computer cover:
   a) Press the buttons on the left and right sides of the computer.
   b) Slide the computer cover towards the front of the computer until it stops, and then lift it up and off the chassis.

2. Remove the fan shroud by lifting the shroud straight up out of the computer (see Figure 2 below).

3. Rotate the drive cage to its upright position (see Figure 3 below).

4. Rotate the power supply to its full upright position (see Figure 4 below).

5. Disconnect any cables from the system board and remove the cables from the computer.

6. Remove the long mounting screw that secures the system board tray to the chassis (see Figure 5 below).

7. Slide the system board tray assembly toward the front of the chassis, about 1/4 inch and lift the system board up and out of the chassis.

8. Pull the EMI gasket off of the rear wall of 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:

**TYPE 1 BATTERY HOLDER** (see Figure 7 below)

Lift the battery out of the holder.

**TYPE 2 BATTERY HOLDER** (see Figure 8 below)

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.

**TYPE 3 BATTERY HOLDER** (see Figure 9 below)

Pull back on the clip that holds the battery in place, and then remove the battery.
### POWER SUPPLY

1. Remove the security clip (see Figure 10 below).
   NOTE: The security clip is an optional feature and is not installed on all computers.

2. Rotate the drive cage up and disconnect the power cables from all devices.

3. Release the power supply cable from the cable retaining clips on the bottom of the chassis under the drive cage.

4. If required, disconnect the hood sensor from the system board and remove the sensor from the power supply by sliding the hood sensor switch mounted on the power supply toward the outside of the computer and lowering it through the slot (see Figure 11 below).
   NOTE: The hood sensor is an optional feature and is not installed on all computers.

5. Rotate the power supply to its full upright position, and then lift the power supply straight up and out of the chassis (see Figure 12 below).

### POWER SUPPLY PRINTED CIRCUIT ASSEMBLY

1. Remove the screws that secure the covers to the power supply (see Figures 13 & 14 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. Remove the top cover of the power supply. Note that there may be tabs that secure the top cover to the power supply chassis. If the tabs are on top, you may need to use a small flat blade screwdriver to loosen the tabs (see Figure 15 below).

3. Cut the plastic cable clamp that secures the main set of wires to the power supply chassis (see Figure 16 below).

4. If applicable, remove the power supply side panel.

5. Using diagonal cutters (dikes), cut the blue and brown power connector wires and cut or unplug the black fan wire (see Figure 17 below).

6. Remove the screws that secure the PCA to the power supply chassis (see Figure 18 below).
   NOTE: Screw quantity and location may vary.

7. Slide the PCA out of the power supply.

8. There are three different power supply PCAs. Refer to Figures 19 to 26 to determine which PCA you have and the capacitors you must cut from the board.

9. If you have PCA 3 (see Figure 23), using a pry bar or screwdriver, pry the metal shield to gain access to the large capacitor underneath it (see Figure 25 below).

10. If you have PCA 3, cut the large capacitor from the board (see Figure 26 below).
3.2 ILLUSTRATIONS

FIGURE 1: Removing the computer cover

FIGURE 2: Removing the fan shroud

FIGURE 3: Rotating the drive cage to its upright position

FIGURE 4: Rotating the power supply to its full upright position
FIGURE 5: Removing the system board mounting screw

FIGURE 6: Lifting the system board out of the chassis

FIGURE 7: Type 1 battery holder

FIGURE 8: Type 2 battery holder
FIGURE 13: Power supply screw locations (may vary)

FIGURE 14: Power supply screw location (may vary)

FIGURE 15: Top panel tabs (may vary)

FIGURE 16: Cut plastic cable clamp
FIGURE 21: Power supply PCA 2

FIGURE 22: Cut six capacitors – PCA 2

FIGURE 23: Power supply PCA 3

FIGURE 24: Cut three capacitors – PCA 3
FIGURE 25: Pry this metal shield

FIGURE 26: Cut large capacitor