

Amendment 1.0 to the  
ENERGY STAR® Multifunction Device  
Memorandum of Understanding between  
The United States Environmental Protection Agency  
and  
**FIELD(LONG\_CO\_NAME)**

I. This amendment modifies the voluntary agreement between **FIELD(LONG\_CO\_NAME)** (“ENERGY STAR® Partner” or “Partner”) and the United States Environmental Protection Agency (EPA). Amendment 1.0 is effective upon signature. In order to continue to participate in the ENERGY STAR Multifunction Device Program, Partner shall sign this amendment and return it to EPA. Amendment 1.0 revises specific sections of the Multifunction Device MOU as noted below; sections of the MOU not addressed in this Amendment shall remain unchanged and in effect.

*Definitions*

II. Paragraph 4 of Section II.A of the Multifunction Device MOU shall be deleted and replaced with the following text.

Some digital copiers can be upgraded into an MFD in the field with the installation of add-on devices that allow printing or faxing capabilities. Partners may consider this system of components to be an MFD, and may qualify it according to the specifications in Tables 1 through 4. However, when the digital copier is sold independently of the add-on devices, the copier must qualify according to the upgradeable digital copier specifications in Tables 5 through 8.

III. The definition below shall be added after Section II.L. to become the final paragraph of Section II.

M. Upgradeable Digital Copier: A commercial reprographic imaging unit whose sole function is the production of duplicates from a graphic hard copy original using digital imaging technology, but that provides the option of being upgraded to offer multiple functions, such as printing or fax capabilities, through the installation of add-on devices. In order to be classified as an upgradeable digital copier under the MFD MOU, the upgrade options must be available on the market or intended for availability within one year after the base unit is launched. Digital copiers that are not designed for functional upgrades must qualify for the ENERGY STAR label under the Copier MOU.

---

ENERGY STAR is a U.S. registered mark.

*Product Qualification for the ENERGY STAR Label*

IV. The following text and tables shall be added after Table 4 in Section IV.B.1.b.

c. Upgradeable Digital Copiers

To qualify as ENERGY STAR compliant under the Multifunction Device MOU, upgradeable digital copiers designed to handle primarily 8.5" x 11" or A-4 sized paper shall meet the specifications provided in Tables 5 and 6. All device speeds shall be measured with respect to the number of 8.5" x 11" or A-4 sized images that feed through per minute, as described in Section II.B of the MOU.

*Table 5. Tier 1 Criteria for the ENERGY STAR Multifunction Device Program —  
UPGRADEABLE DIGITAL COPIERS (September, 1998 - March 31, 1999)*

<b>Upgradeable Digital Copier Speed (images per minute)</b>	<b>Sleep Mode<sup>1</sup> (Watts)</b>	<b>Sleep Mode Default Time</b>
0 < ipm ≤ 10	≤ 30	≤ 15 min
10 < ipm ≤ 20	≤ 60	≤ 30 min
20 < ipm ≤ 44	≤ 80	≤ 60 min
44 < ipm ≤ 100	≤ 90	≤ 90 min
100 < ipm	≤ 100	≤ 120 min

*Table 6. Tier 2 Criteria for the ENERGY STAR Multifunction Device Program —  
UPGRADEABLE DIGITAL COPIERS (April 1, 1999)*

<b>Upgradeable Digital Copier Speed (images per minute)</b>	<b>Low-power Mode (Watts)</b>	<b>Recovery Time 30 seconds</b>	<b>Sleep Mode<sup>1</sup> (Watts)</b>	<b>Sleep Mode Default Time</b>
0 < ipm ≤ 10	NA	NA	≤ 5	≤ 15 min
10 < ipm ≤ 20	NA	NA	≤ 5	≤ 30 min
20 < ipm ≤ 44	3.85 x ipm + 5	Yes	≤ 15	≤ 60 min
44 < ipm ≤ 100	3.85 x ipm + 5	Recommended	≤ 20	≤ 90 min
100 < ipm	3.85 x ipm + 5	Recommended	≤ 20	≤ 120 min

**Note that Tier 2 criteria for upgradeable digital copiers are identical to those of the Copier**

---

<sup>1</sup>For MFDs that consist of functionally integrated units such as print, scan, and computer components, sleep mode Watts for the total system may be increased by an amount equal to the sleep mode Watts allowed for an ENERGY STAR computer.

**MOU, Tier 2.**

d. Large Format Upgradeable Digital Copiers

To qualify as ENERGY STAR compliant under the Multifunction Device MOU, upgradeable digital copiers designed to handle primarily A2 or 17" x 22" or larger sized paper shall meet the specifications provided in Tables 7 and 8. All device speeds shall be measured with respect to the number A-4 sized images that feed through per minute, as described in Section II.B of the MOU.

*Table 7. Tier 1 Criteria for the ENERGY STAR Multifunction Device Program — LARGE FORMAT UPGRADEABLE DIGITAL COPIERS (September, 1998 - March 31, 1999)*

<b>Upgradeable Digital Copier Speed (images per minute)</b>	<b>Sleep Mode (Watts)<sup>1</sup></b>	<b>Sleep Mode Default Time</b>
0 < ipm ≤ 40	≤ 115	≤ 30 min
40 < ipm	≤ 195	≤ 90 min

*Table 8. Tier 2 Criteria for the ENERGY STAR Multifunction Device Program — LARGE FORMAT UPGRADEABLE DIGITAL COPIERS (April 1, 1999)*

<b>Upgradeable Digital Copier Speed (images per minute)</b>	<b>Low-power Mode (Watts)</b>	<b>Recovery Time 30 seconds</b>	<b>Sleep Mode (Watts)<sup>1</sup></b>	<b>Sleep Mode Default Time</b>
0 < ipm ≤ 40	NA	NA	≤ 65	≤ 30 min
40 < ipm	4.85 x ipm + 45	NA	≤ 100	≤ 90 min

V. Paragraph IV.B.2.a shall be deleted and replaced with the following text.

2. Additional Requirements

In addition to the requirements shown in Tables 1 through 8, the following requirements must also be met.

a. Default Time for Low-power Mode

For Tier 2 MFDs and upgradeable digital copiers, Partner shall ship multifunction device models with the default time for the low-power mode set at 15 minutes. Partner shall set the default times for the sleep mode to the levels specified in Tables 1 through 8. The default times for the low-power mode and the sleep mode shall be measured from the time the last copy was made or the last page was printed.

*Duplexing*

VI. Paragraph IV.B.2.d shall be deleted and replaced with the following text.

d. Auto-duplex features

Duplexing is not required to be the default setting for any multifunction devices. However, it is required to be offered as an *option* for all standard size multifunction devices faster than 20 ipm. Further, it is *recommended* that multifunction devices be shipped with automatic duplexing set as the default mode for copying and any other feasible functions and described to customers upon installation. This also applies to the last columns (titled "Automatic Duplex Mode") of Tables 1 and 2 on page six of the Original MOU.

*ENERGY STAR Label*

VIII. Section VI.C of the MOU shall be deleted and replaced with the text below.

C. Partner understands that the ENERGY STAR® name and the ENERGY STAR label are registered marks of the United States Government as represented by the Administrator of EPA, and are subject to the provisions of Title 15, Chapter 22, United States Code, the various state laws applicable to trademarks, and this Memorandum of Understanding. Please note that the Partner shall adhere to the ENERGY STAR Logo Uses Guidelines when using the ENERGY STAR logo or name.

\* \* \* \* \*

The undersigned hereby execute this amendment to the Multifunction Device Memorandum of Understanding on behalf of their parties. The signer of this agreement affirms that he/she has the authority to commit Partner to participation in the ENERGY STAR Office Equipment Program.

**For the U.S. Environmental Protection Agency (EPA):**

Signature:                   *--- draft --- draft --- draft ---*  
\_\_\_\_\_ Date: \_\_\_\_\_

Name:                   Paul M. Stolpman

Title:                   Director, Office of Atmospheric Programs

**For FIELD(LONG\_CO\_NAME):**

Signature:                   *--- draft --- draft --- draft ---*  
\_\_\_\_\_ Date: \_\_\_\_\_

Name:                   \_\_\_\_\_

Title:                   \_\_\_\_\_