MONOCHROME2 missing in part of MPEG2 definition

**DICOM Correction Item**

<table>
<thead>
<tr>
<th>Correction Number</th>
<th>Name of Standard</th>
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<tr>
<td>CP-769</td>
<td>PS 3.5 – 2007</td>
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**Type of Modification**
Correction

**Rationale for Correction**
In the description of the MPEG2 compression is mentioned that YBR_PARTIAL_420 and MONOCHROME2 are possible values for the Photometric Interpretation (0028,0004) attribute. In the summary below the MONOCHROME2 is missing.

**Sections of documents affected**
PS 3.5 Section 8.2.5

**Correction Wording:**

8.2.5 MPEG2 MP@ML IMAGE COMPRESSION

The MPEG2 MP@ML bit stream specifies whether or not a reversible or irreversible multi-component (color) transformation, if any, has been applied. If no multi-component transformation has been applied, then the components shall correspond to those specified by the DICOM Attribute Photometric Interpretation (0028,0004). MPEG2 MP@ML applies an irreversible multi-component transformation, so DICOM Attribute Photometric Interpretation (0028,0004) shall be YBR_PARTIAL_420 in the case of multi-component data, and MONOCHROME2 in the case of single component data (even though the MPEG2 bit stream itself is always encoded as three components, one luminance and two chrominance).

In summary:

- Samples per Pixel (0028,0002) shall be 3
- Photometric Interpretation (0028,0004) shall be YBR_PARTIAL_420 or **MONOCHROME2**
- Bits Allocated (0028,0100) shall be 8

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