

DICOM Correction Item

Correction Number CP-916	
Log Summary: Primary Fluence Mode Corrections	
Type of Modification Addition	Name of Standard PS 3.3 2008 (CP 805)
<p>Rationale for Correction:</p> <p>CP 805 introduced the Primary Fluence mode to the Beam Module of the RT Plan. This CP completes this functionality by adding it to the RT Treatment Session Record and RT Image in order to capture this data for delivered beams resp. acquired images. The tag numbers shall be the same as used in CP 805.</p> <p>In addition, the specification of the multiplicity in CP 805 for the Primary Fluence Mode Sequence was lacking. Therefore the indicated specification should go into the existing sequence tag in the RT Beams module. Because there can only be one primary fluence mode device at a time, the multiplicity is 1.</p>	
Sections of documents affected PS 3.3	
Correction Wording:	

In PS 3.3, Section C.8.8.14 (RT Beams Module), Table C.8-50, add the following text to Primary Fluence Mode Sequence:

Attribute Name	Tag	Type	Attribute Description
>Primary Fluence Mode Sequence	(3002,0050)	3	Sequence defining whether the primary fluence of the treatment beam uses a non-standard fluence-shaping. <u>Only a single item shall be permitted in this sequence.</u>
>>Fluence Mode	(3002,0051)	1	Describes whether the fluence shaping is the standard mode for the beam or an alternate. Enumerated Values: STANDARD = Uses standard fluence-shaping NON_STANDARD = Uses a non-standard fluence-shaping mode <u>Only a single item shall be permitted in this sequence.</u>

In PS 3.3, Section C.8.8.21 (RT Beams Session Record Module), Table C.8-57, add the following attribute after >Radiation Type (300A,00C6):

Attribute Name	Tag	Type	Attribute Description
>Radiation Type	(300A,00C6)	2	Particle type of delivered Beam. Defined Terms: PHOTON, ELECTRON, NEUTRON, PROTON
<u>>Primary Fluence Mode Sequence</u>	<u>(3002,0050)</u>	<u>3</u>	<u>Sequence defining whether the primary fluence of the treatment beam used a non-standard fluence-shaping when the beam was delivered.</u> <u>Only a single item shall be present.</u>

>>Fluence Mode	(3002,0051)	1	<u>Describes whether the fluence shaping is the standard mode for the beam or an alternate.</u> <u>Enumerated Values:</u> <u>STANDARD = Uses standard fluence-shaping</u> <u>NON_STANDARD = Uses a non-standard fluence-shaping mode</u>
>>Fluence Mode ID	(3002,0052)	1C	<u>Identifier for the specific fluence-shaping mode.</u> <u>Required if Fluence Mode (3002,0051) has value NON_STANDARD.</u>

In PS 3.3, Section C.8.8.2 (RT Image Module), Table C.8-38, add the following attribute after >KVP (0018,0060):

Attribute Name	Tag	Type	Attribute Description
>KVP	(3018,0006)	2C	Peak kilo voltage output (kV) of X-ray generator used to acquire image. Required if Value 3 of Image Type (0008,0008) is PORTAL, SIMULATOR or RADIOGRAPH.
<u>>Primary Fluence Mode Sequence</u>	(3002,0050)	3	<u>Sequence defining whether the primary fluence of the treatment beam uses a non-standard fluence-shaping.</u> <u>Only a single item shall be present.</u>
>>Fluence Mode	(3002,0051)	1	<u>Describes whether the fluence shaping is the standard mode for the beam or an alternate.</u> <u>Enumerated Values:</u> <u>STANDARD = Uses standard fluence-shaping</u> <u>NON_STANDARD = Uses a non-standard fluence-shaping mode</u>
>>Fluence Mode ID	(3002,0052)	1C	<u>Identifier for the specific fluence-shaping mode.</u> <u>Required if Fluence Mode (3002,0051) has value NON_STANDARD.</u>