*Following changes are made to Section 8.4.5 Decoding process for intra blocks*

### Decoding process for intra blocks

#### 8.4.5.1 General decoding process for intra blocks

Inputs to this process are:

* a sample location ( xTb0, yTb0 ) specifying the top-left sample of the current transform block relative to the top‑left sample of the current picture,
* a variable nTbW specifying the width of the current transform block,
* a variable nTbH specifying the height of the current transform block,
* a variable predModeIntra specifying the intra prediction mode,
* a variable cIdx specifying the colour component of the current block.

Output of this process is a modified reconstructed picture before in-loop filtering.

The maximum transform block size maxTbSize is derived as follows:

maxTbSize = ( cIdx  = =  0 ) ? MaxTbSizeY : MaxTbSizeY / 2 (8‑49)

The luma sample location is derived as follows:

( xTbY, yTbY ) = ( cIdx  = =  0 ) ? ( xTb0, yTb0 ) : ( xTb0 \* 2, yTb0 \* 2 ) (8‑50)

Depending on maxTbSize, the following applies:

* If IntraSubPartitionsSplitType is equal to NO\_ISP\_SPLIT and nTbW is greater than maxTbSize or nTbH is greater than maxTbSize, the following ordered steps apply.

1. The variables newTbW and newTbH are derived as follows:

newTbW = ( nTbW  >  maxTbSize ) ? ( nTbW / 2 ) : nTbW (8‑51)

newTbH = ( nTbH   >  maxTbSize ) ? ( nTbH / 2 ) :  nTbH (8‑52)

1. The general decoding process for intra blocks as specified in this clause is invoked with the location ( xTb0, yTb0 ), the transform block width nTbW set equal to newTbW and the height nTbH set equal to newTbH, the intra prediction mode predModeIntra, and the variable cIdx as inputs, and the output is a modified reconstructed picture before in-loop filtering.
2. If nTbW is greater than maxTbSize, the general decoding process for intra blocks as specified in this clause is invoked with the location ( xTb0, yTb0 ) set equal to ( xTb0 + newTbW, yTb0 ), the transform block width nTbW set equal to newTbW and the height nTbH set equal to newTbH, the intra prediction mode predModeIntra, and the variable cIdx as inputs, and the output is a modified reconstructed picture before in-loop filtering.
3. If nTbH is greater than maxTbSize, the general decoding process for intra blocks as specified in this clause is invoked with the location ( xTb0, yTb0 ) set equal to ( xTb0, yTb0 + newTbH ), the transform block width nTbW set equal to newTbW and the height nTbH set equal to newTbH, the intra prediction mode predModeIntra, and the variable cIdx as inputs, and the output is a modified reconstructed picture before in-loop filtering.
4. If nTbW is greater than maxTbSize and nTbH is greater than maxTbSize, the general decoding process for intra blocks as specified in this clause is invoked with the location ( xTb0, yTb0 ) set equal to ( xTb0 + newTbW, yTb0 + newTbH ), the transform block width nTbW set equal to newTbW and the height nTbH set equal to newTbH, the intra prediction mode predModeIntra, and the variable cIdx as inputs, and the output is a modified reconstructed picture before in-loop filtering.

* Otherwise, the following ordered steps apply:
* The variables nW, nH, xPartIncrement and yPartIncrement are derived as follows:

nW = IntraSubPartitionsSplitType = = ISP\_VER\_SPLIT ? nTbW / NumIntraSubPartitions : nTbW (8‑53)

nH = IntraSubPartitionsSplitType = = ISP\_HOR\_SPLIT ? nTbH / NumIntraSubPartitions : nTbH (8‑54)

xPartIncrement = ISP\_VER\_SPLIT ? 1 : 0

yPartIncrement = ISP\_HOR\_SPLIT ? 1 : 0

* The variables xPartIdx and yPartIdx are set equal to 0. The following ordered steps are applied successively for i = 0..NumIntraSubPartitions – 1:

1. The variables xPartIdx and yPartIdx are updated as follows:

xPartIdx = xPartIdx + xPartIncrement  
yPartIdx = yPartIdx + yPartIncrement

1. The intra sample prediction process as specified in clause 8.4.5.2 is invoked with the location ( xTbCmp, yTbCmp ) set equal to ( xTb0 + nW \* xPartIdx, yTb0 + nH \* yPartIdx ), the intra prediction mode predModeIntra, the transform block width nTbW and height nTbH set equal to nW and nH, the coding block width nCbW and height nCbH set equal to nTbW and nTbH, and the variable cIdx as inputs, and the output is an (nW)x(nH) array predSamples.
2. The scaling and transformation process as specified in clause 8.7.2 is invoked with the luma location ( xTbY, yTbY ) set equal to ( xTbY + nW \* xPartIdx, yTbY + nH \* yPartIdx ), the variable cIdx, the transform width nTbW and the transform height nTbH set equal to nW and nH as inputs, and the output is an (nW)x(nH) array resSamples.
3. The picture reconstruction process for a colour component as specified in clause 8.7.5 is invoked with the transform block location ( xTbComp, yTbComp ) set equal to ( xTb0 + nW \* xPartIdx, yTb0 + nH \* yPartIdx ), the transform block width nTbW, the transform block height nTbH set equal to nW and nH, the variable cIdx, the (nW)x(nH) array predSamples, and the (nW)x(nH) array resSamples as inputs, and the output is a modified reconstructed picture before in-loop filtering.