

CTB-00836**Date:** *January 18, 2021***Author:** Service Engineering**Product:** Selenia Dimensions/
3Dimensions**Subsystem:** AWS**Subject:** **AEC Performance Testing Not Required for I-View/I-View 2.0**

Purpose

To provide information to the medical physicist on AEC Performance testing and its applicability to the I-View/I-View 2.0 (Contrast-Enhanced Digital Mammography, or CEDM) imaging modality.

Scope

This bulletin applies to all Selenia Dimensions and 3Dimensions systems licensed for I-View/I-View 2.0.

Reason

AEC performance is tested for Conventional 2D and magnification modes to ensure that the system delivers the appropriate dose to achieve a detector response (Exposure Index) within an allowable range. If the system passes the test in these modes, all other 2D imaging modes will also pass as the detector response behaves in an identical way for all other 2D modes, each with their own respective CNR corrections factors.

There are no Hologic QC requirements for testing AEC for I-View/I-View 2.0. The AEC for I-View/I-View 2.0 behaves the same as for Conventional 2D mode for the Low Energy (LE) exposure, so the CNR correction factors work as with the other 2D modes (Conventional 2D, Magnification) for the LE exposure. The main difference in I-View/I-View 2.0 mode is that there is an additional High Energy (HE) exposure that is acquired after the LE exposure. The exposure techniques for the HE exposure are dependent upon the exposure techniques of the LE exposure, and not on a targeted detector response for the HE exposure. Therefore, there are no requirements for the exposure index of the HE exposures and should not be used for AEC performance testing.

Instructions

Follow the procedures provided in the QC manual for AEC performance testing.