With the introduction of the Varian Enhanced Dynamic Wedge (EDW) radiotherapy departments are facing the task of commissioning. Commissioning of the EDW basically consists of two steps: 1. Acquisition of beam data using a detector array and/or radiographic films. 2. Implementation of the measured beam data on a modern RTP system. Focussing on the first point, this paper describes how beam data required for clinical commissioning of an EDW was retrieved from a Wellhöfer CA24 detector array using a WP700 water phantom. Dose profiles ranging from 5 x 5 cm^2 in field size to maximum (asymmetric) field size ((20,10) x 30 cm^2) at different depths for the available open and 10°, 15°, 20°, 25°, 30°, 45°, 60° wedged fields were measured with a spatial resolution of 5 mm. This was done for the 60° wedge first to verify the "Golden Segmented Treatment Table" (GSTT). Two-dimensional dose profiles showed the expected wedge angles at a phantom depth of 10 cm. For larger field sizes however, differences between measured and nominal wedge angles were increased up to 10°. Wedge factors for all wedge angles and possible field sizes were measured. Percentage depth doses (PDD) in the central axis (CAX) coincided with open field measurements within 2% tolerance. In conclusion, commissioning of the Varian Enhanced Dynamic Wedge is very time consuming, but necessary for a complete clinical commissioning. Time estimates will be given throughout this presentation.

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