Procedure for in-vessel GPI calibration

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(n.b. the absolute calibration of GPI will be previously, led by Filippo)

Tools needed:

1) GPI target calibration plate (same as used in 2014), plus white plate (paper)

2) GPI camera connected and working locally with laptop computer

3) in-vessel measurement arm (technician)

4) bright point light source

Procedure:

1) install fiber bundle on Bay B and camera in temporary location (WP#2016262)

2) test camera by taking and saving a single-frame of inside of vessel before entry

3) compare this single frame with images of vessel wall during run (on computer)

4) sz enters vessel and attaches target plate to GPI manifold

5) take images of target plate @ 64x80 pixels and 128x128 pixels for registration

6) sz puts white paper over target and illuminates with normal point source

7) person at camera takes picture to document vignetting in image

8) sz removes white paper from target plate

9) remote arm measures 6 crossing-points points on target plate, manifold and port

10) sz removes target plate from manifold