

# 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, take in-vessel photo
- 5) person at camera takes picture of target plate and saves on computer
- 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