

Form 391 – Bolus Compatibility Evaluation Report

1 Purpose

- 1.1 The purpose of this evaluation is to determine whether the bolus material provided by 3rd party vendor is compatible with AlignRT.
- 1.2 This evaluation <u>does not</u> aim to investigate, comment on, or make claims on immobilization rigidity or patient alignment reproducibility.

2 Bolus Type Under Evaluation

Vendor:	
Bolus Name:	Mesh Bolus
Ordering Info:	n/a
Bolus Thickness:	
Color:	white
Material:	Brass mesh
Vision RT Employee:	Vicky Howard, Clinical Physicist, MS, MBA, DABR
Date of Evaluation:	18 February 2020
Vision RT Camera Gen:	Gen 4

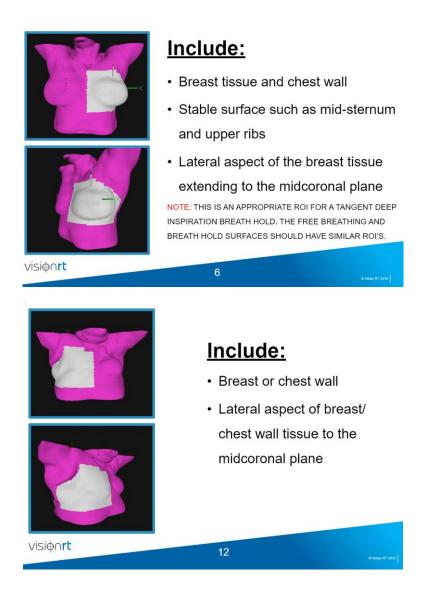
3 Special Instructions

4 Training Techniques that Customers Receive

5 AlignRT ROI Instructions for Breast

0004-1027 Flipbook Drawing an Isocenter Region of Interest for Tangent breast and Chest wall:





6 Evaluation

Photos of the bolus material placed on the test phantom:

[Insert photo(s) here]

6.1 Results

To determine the compatibility of bolus with Vision RT SGRT surface reconstruction, we shall capture a Reference Surface of the phantom without the bolus and a second Reference Surface with the bolus and visually compare the amount of data that is reconstructed.





We will also look at how ambient room lighting typical to clinical environments impacts these results including:

- dark room lighting (lights off with minor background lighting from computer screens)
- medium room lighting (recessed lighting only)
- bright room lighting

Skin tone used for this study will reflect the properties of the bolus rather than skin tone of patient Data is captured in the chart below.

Room lighting	SGRT Reference without Bolus	SGRT Reference with Bolus	ROI Propagation pass at 80% threshold?
Dark			No
Medium			No
Bright			No

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Vision RT Quality System

Additional Comments if applicable:

7 Recommendations to Bolus Vendor

Although the ROI did not fully propagate onto the captured surface, the AlignRT cameras were able to see the majority of the surface for the medium and bright light settings as depicted by the wireframe screenshots above. In this case, the customer could modify the ROI to fill in the missing reconstructed sections of the ROI propagation on the bolus surface capture for more accurate patient monitoring with bolus.





8 Summary

Does the surface of the bolus material work suitably well with Vision RT SGRT surface reconstruction?						
reconstruction:						
<u>YES</u>		<u>NO</u>				
If no, please elaborate under which conditions the bolus fails to meet ROI requirements below:						
[Detail fail criteria]						

9 Approvals

