CT Number-RLSP Phantom Instructions

(Revised June 2016)

The purpose of this phantom is to test the CT Number to Relative Linear Stopping Power (RLSP) conversion curve that your institution uses in the treatment planning system. The RLSP for each phantom material has been experimentally determined.

Instructions

- 1. Unscrew the top screw and fill cavity with water. Make sure all air bubbles are removed. Replace screw.
- 2. Image the phantom using your standard CT protocol. If you have two standard protocols (e.g. 120 kVp and 140 kVp), please image with both protocols.
- 3. Record the CT parameters used to scan the phantom.
- 4. Drain the water from the phantom and replace the screw.
- 5. Obtain and record the CT number (or HU value) for each region shown on page 2. You may wish to sample a few slices near the middle of the phantom. Please obtain a CT Number/HU value for air outside of the phantom as well. Note: the numbers in the image correspond with the numbers written on the phantom.
- 6. Print a copy of your institution's CT Number-RLSP conversion curve(s).
- Return phantom, this packet, and conversion curve(s) with pre-paid shipping label.

If you have any questions, please contact:

Paige TaylorPATaylor@mdanderson.org713-745-8989Jessica LowensteinJLowenst@mdanderson.org713-745-8989IROC HoustonIROCHouston@mdanderson.org713-745-8989

PLEASE COMPLETE THIS FORM AND RETURN WITH PHANTOM TO IROC HOUSTON

Institution:		
Address:		
Physicist to receive report:		
Person to call in case of quest	ions:	
Phone Number:	Email Address:	

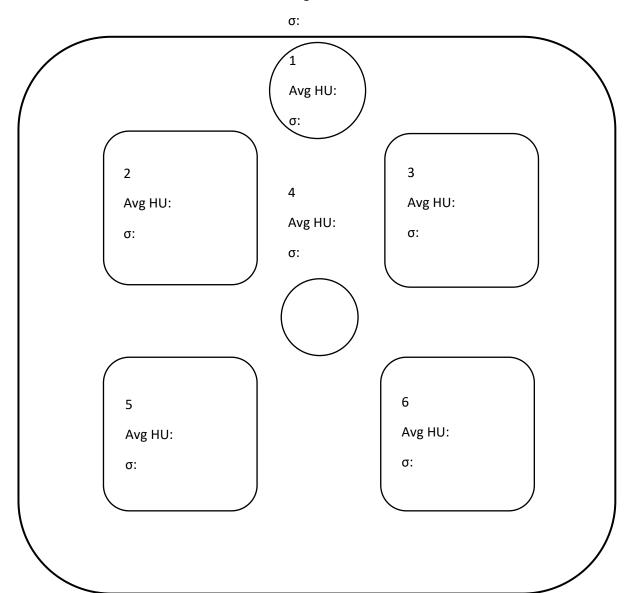
For Office Use Only	CT	RLSP	Inst #	Date Sent		Date Rec'd	
	phanto	m #					

PLEASE COMPLETE THIS FORM AND RETURN WITH PHANTOM TO IROC HOUSTON

CT Protocol Parameters			
Scanner Type			
Protocol Name			
kVp			
mAs			
Slice thickness (mm)			
Scan Mode (helical or axial)			
Pitch			
Scan FOV (cm)			
Irradiation date			

7 (air)

Avg HU:



PLEASE COMPLETE THIS FORM AND RETURN WITH PHANTOM TO IROC HOUSTON

CT Protocol Parameters				
Scanner Type				
Protocol Name				
kVp				
mAs				
Slice thickness (mm)				
Scan Mode (helical or axial)				
Pitch				
Scan FOV (cm)				
Irradiation date				

7 (air)

Avg HU:

