Health
Physics
Northwest

January 5, 2009

Enclosed are the lead attenuation and equivalency results performed on the three glove samples that were recently submitted to Health Physics Northwest. At your request, a single layer of the finger tip portion of each sample was evaluated in accordance with ASTM test Method F 2547-06. Testing was performed on January 5, 2009 at our lab utilizing a GE Proteus high frequency X-ray generator. The following table details the characteristics of the X-ray tube used to perform this testing at settings of 60, 80, 100, and 120 kVp:

	60 kVp	80 kVp	100 kVp	120 kVp
Actual kVp	59.8	79.7	100.5	120.5
Half-Value Layer (mmAl)	3.0	4.0	5.1	6.4

The test results for these samples are given in the tables on the following page. If you have any questions or would like to discuss these results, please don't hesitate to contact our office.

Sincerely,

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Encl.

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		Attenuation			
Number of Layers	Sample Designation	60 kVp	80 kVp	100 kVp	120 kVp
1	Glove 1 (Produced 11/26/08)	57.89 %	47.36 %	39.74 %	35.38 %
1	Glove 2 (Produced 11/26/08)	57.22 %	46.95 %	39.33 %	35.07 %
1	Glove 3 (Produced 11/26/08)	56.41 %	46.14 %	38.93 %	34.65 %

		Lead Equivalency (mm Pb)			
Number of Layers	Sample Designation	60 kVp	80 kVp	100 kVp	120 kVp
1	Glove 1 (Produced 11/26/08)	0.072	0.066	0.063	0.060
1	Glove 2 (Produced 11/26/08)	0.071	0.065	0.062	0.059
1	Glove 3 (Produced 11/26/08)	0.070	0.065	0.061	0.058