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REGION 1

2007 APR 27 PM 12: 25

1550 S Philadelphia Blvd.  
Aberdeen, MD 21001  
Phone: 410.575.7295  
Fax: 410.272.5937  
www.mqlabs.com

April 23, 2007

Licensing Assistance Team  
Division of Nuclear Materials Safety  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406-1415

03032529

Reference: Radioactive Materials License 19-28683-01

MQC Inc. has revised the Radiographic Utilization and Survey Log/Shipping Manifest to accommodate Certificate of Conformance Number USA/9283/B(U)-96. Should you have any questions please don't hesitate to call.

Respectfully,

Jennifer S. Fabie  
Radiation Safety Officer

Enclosure



NMSS/RGN1 MATERIALS-002

"ISO 9001:2000 and AS9100:2004 Rev. B Certified Quality Management System"

## MARYLAND Q.C. LABORATORIES, INC.

## RADIOGRAPHIC UTILIZATION AND SURVEY LOG/SHIPPING MANIFEST (RAD-010)

Survey meters: \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ model no. \_\_\_\_\_ s/n \_\_\_\_\_ Source checked \_\_\_\_\_

Name \_\_\_\_\_ model no. \_\_\_\_\_ s/n \_\_\_\_\_ Source checked \_\_\_\_\_

Destination: Contractor \_\_\_\_\_ Address \_\_\_\_\_

"RQ"RADIOACTIVE MATERIAL, Type B(U) package, Class 7, UN2916, Iridium 192, Special Form,

(1) Type B(U) package (Ci x 37 =) \_\_\_\_\_ GBq, Radioactive Yellow -II, TI: \_\_\_\_\_ (mR/hr) or (mSv/h x 100) @1 meter

Special Form Cert no. USA/0335/S Source S/N \_\_\_\_\_

Dimensions 43x37x19cm, Overpack used model no. OPL-660 Cert no. USA/9283/B(U)-96

Projector: QSA Global Inc. Model no. 660A S/N \_\_\_\_\_ Model no. 660B S/N \_\_\_\_\_

"This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation." This shipment is made under the provisions of 49CFR.

**\*\*Conversion Factor: mR/h ÷ 100 =mSv/h\*\***

Radiographer-in-charge \_\_\_\_\_

Projector survey: \_\_\_\_\_

Vehicle Survey: \_\_\_\_\_

In: mR/h \_\_\_\_\_ mSv/h \_\_\_\_\_ Out: mR/h \_\_\_\_\_ mSv/h \_\_\_\_\_

Front seat: mR/h	mSv/h
Left: mR/h	mSv/h
Rear: mR/h	mSv/h
Right: mR/h	mSv/h

Daily inspection: \_\_\_\_\_

\_\_\_\_\_ Inspect guide tubes and control housings for cuts, dents, or loose fittings.

\_\_\_\_\_ Inspect control assembly for loose fittings, damage, and ease of operation.

\_\_\_\_\_ Inspect exposure device for damage to lock, fittings, or labels

\_\_\_\_\_ Inspect source connection ends using the no go gage.

\_\_\_\_\_ All equipment discrepancies reported to the RSO, if none enter N/A

Exposure Information: List the duration of each exposure (if duration is the same for all exposures, list first exposure time only) \_\_\_\_\_

Pocket Dosimeter Readings			exposure no.		Note: Readings shall be recorded in mSv							
Name	1	2	3	4	5	6	7	8	9	10	11	
	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:
12	13	14	15	16	17	18	19	20	21	22	23	24
	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:
26	27	28	29	30	31	32	33	34	35	36	37	38
	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:
40	41	42	43	44	45	46	47	48	49	50	51	52
	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:
54	55	56	57	58	59	60	61	62	63	64	65	66
	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:

Sketch RESTRICTED area on reverse side, Sketch shall include all information listed

**\*\*In case of Emergency contact the RSO Home (717) 428-0535 or Office (410) 575-7295**

Front

**SURVEY MAP**

mR/hr. \_\_\_\_\_ mSv/hr. \_\_\_\_\_  
 \_\_\_\_\_ ft.

Conversion Factor:  
 $\text{mR/hr.} \div 100 = \text{mSv/hr.}$

Rate @ Crank

mR/hr. \_\_\_\_\_ mSv/hr. \_\_\_\_\_

mR/hr. \_\_\_\_\_ mSv/hr. \_\_\_\_\_  
 \_\_\_\_\_ ft.

⊕ ———— ⊞ ———— @ mR/hr. \_\_\_\_\_ mSv/hr. \_\_\_\_\_  
 \_\_\_\_\_ ft.

mR/hr. 100 mSv/hr. 1  
 # \_\_\_\_\_ ft.

mR/hr. \_\_\_\_\_ mSv/hr. \_\_\_\_\_  
 \_\_\_\_\_ ft.

List the following information :

1. Crank location
2. Structural shielding
3. Personnel locations
4. Exposure rate at Crank
5. Distance to restricted area
6. Distance to High Radiation area
7. Exposure rates at four points around restricted area
8. Names of rad area barrier monitors

Figures:

@ = crank assembly

⊕ = Source

# = High Rad Area (LIST DISTANCE)