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August 21, 2007

Ms. Marie Miller
U.S. Nuclear Regulatory Commission
Division of Nuclear Material Safety
475 Allendale Road
King of Prussia, PA 19406-1415

RE: License No. 37-23341-01 Quarterly Report – 2nd Quarter 2007

030 20934

Dear Ms. Miller:

In accordance with License Condition No. 16, enclosed is the quarterly report for the referenced period for discharges made pursuant to License Condition No. 15. The resulting pathway analysis, calculated in the manner provided in UniTech's letter dated July 24, 1998, indicates a maximum potential quarterly adult Committed Effective Dose Equivalent (CEDE) of 6.92×10^{-3} millirem.

If you have questions regarding this information, please contact me at your earliest convenience. I may be reached at 610-948-9700, extension 19.

Sincerely,

UniTech Services Group, Inc.

Glenn Roberts
Health Physicist

cc: Dan Neely, Plant Manager/RSO
John Wudyka, Radiation Protection Engineer
Michael Fuller, Esq., Manager, Health Physics and Engineering

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NMSS/RGN1 MATERIALS-002

UniTech Table 1
Royersford Concentrations and Volumes

2007 - ROYERSFORD WASTEWATER CONCENTRATIONS (uCi/ml)												
MONTH	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC
GALLONS	384,356	384,987	1,226,892	701,954	496,970	462,021						
H-3	3.38E-03	9.24E-03	4.37E-04	1.23E-04	2.18E-04	2.07E-04						
C-14	1.85E-08	1.85E-08	1.85E-08	5.82E-08	5.82E-08	5.82E-08						
K-40	NF	NF	2.58E-07	2.51E-07	NF	NF						
Cr-51	NF	NF	NF	NF	NF	NF						
Mn-54	1.74E-07	6.72E-08	3.52E-07	4.52E-08	7.36E-08	2.69E-08						
Mn-56	NF	NF	NF	NF	NF	NF						
Fe-55	9.85E-08	9.85E-08	9.85E-08	9.84E-07	9.84E-07	9.84E-07						
Fe-59	NF	NF	NF	NF	NF	NF						
Co-57	NF	NF	NF	NF	NF	NF						
Co-58	3.83E-08	1.50E-08	9.21E-08	1.24E-07	5.40E-08	4.77E-08						
Co-60	7.37E-07	2.62E-07	1.56E-06	1.65E-07	3.08E-07	1.71E-07						
Ni-59	NF	NF	NF	NF	NF	NF						
Ni-63	5.35E-07	5.35E-07	5.35E-07	<MDA	<MDA	<MDA						
Zn-65	4.87E-08	NF	NF	NF	NF	NF						
Sr-89	NF	NF	NF	NF	NF	NF						
Sr-90	1.51E-08	1.51E-08	1.51E-08	2.47E-08	2.47E-08	2.47E-08						
Zr-95	NF	NF	NF	NF	NF	NF						
Nb-95	NF	NF	2.51E-08	NF	NF	NF						
Tc-99	2.98E-07	2.98E-07	2.98E-07	1.39E-08	1.39E-08	1.39E-08						
Ag-110m	NF	NF	NF	NF	NF	NF						
Sn-113	NF	NF	NF	NF	NF	NF						
Sb-125	NF	NF	NF	NF	NF	NF						
I-125	NF	NF	NF	NF	NF	NF						
I-129	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA						
Cs-134	6.21E-08	3.27E-08	1.08E-07	2.41E-08	2.74E-08	NF						
Cs-137	4.58E-07	5.74E-07	5.72E-07	3.20E-07	3.30E-07	2.06E-07						
Eu-152	NF	NF	NF	NF	NF	NF						
Eu-154	NF	NF	NF	NF	NF	NF						
Eu-155	NF	NF	NF	NF	NF	NF						
Pb-212	NF	NF	NF	NF	NF	NF						
Pb-214	NF	NF	NF	NF	NF	NF						
Ra-226	NF	NF	NF	NF	NF	NF						
Ac-228	NF	NF	NF	NF	NF	NF						
Th-228	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA						
Th-230	3.94E-10	3.94E-10	3.94E-10	<MDA	<MDA	<MDA						
Th-231	NF	NF	NF	NF	NF	NF						
Th-232	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA						
Th-234	NF	4.16E-07	NF	3.17E-07	NF	2.28E-07						
U-234	3.93E-10	3.93E-10	3.93E-10	5.64E-10	5.64E-10	5.64E-10						
U-235	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA						
U-236	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA						
U-238	2.90E-10	2.90E-10	2.90E-10	<MDA	<MDA	<MDA						
Pu-238	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA						
Pu-239	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA						
Pu-241	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA						
Np-237	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA						
Am-241	6.95E-10	6.95E-10	6.95E-10	4.85E-10	4.85E-10	4.85E-10						
Cm-244	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA						
Total	3.38E-03	9.24E-03	4.41E-04	1.25E-04	2.20E-04	2.09E-04						

Notes: NF - Not found in gamma spectra search
 <MDA - Less than minimum detection limit for analytical method.
 Sr-89/90 analyzed and reported as total Sr unless >50 pCi/L. Conservatively assigned to Sr-90
 March K-40 result reported at MDA value. Not used in pathway dose calculation.

UniTech Table 2

Royersford Activities for Pathway Input

2007 - ROYERSFORD WASTEWATER ACTIVITIES (mCi)												
MONTH	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC
Gallons	384356	384987	1226892	701954	496970	462021	0	0	0	0	0	0
H-3	4.92E+03	1.35E+04	2.03E+03	3.27E+02	4.10E+02	3.62E+02						
C-14	2.69E-02	2.70E-02	8.59E-02	1.55E-01	1.09E-01	1.02E-01						
K-40			1.20E+00	6.68E-01								
Cr-51												
Mn-54	2.54E-01	9.79E-02	1.64E+00	1.20E-01	1.38E-01	4.71E-02						
Mn-56												
Fe-55	1.43E-01	1.44E-01	4.57E-01	2.61E+00	1.85E+00	1.72E+00						
Fe-59												
Co-57												
Co-58	5.57E-02	2.18E-02	4.28E-01	3.29E-01	1.02E-01	8.35E-02						
Co-60	1.07E+00	3.82E-01	7.22E+00	4.39E-01	5.79E-01	2.99E-01						
Ni-59												
Ni-63	7.78E-01	7.80E-01	2.48E+00									
Zn-65	7.08E-02											
Sr-89												
Sr-90	2.20E-02	2.20E-02	7.01E-02	6.56E-02	4.65E-02	4.32E-02						
Zr-95												
Nb-95			1.16E-01									
Tc-99	4.34E-01	4.34E-01	1.38E+00	3.69E-02	2.61E-02	2.43E-02						
Ag-110m												
Sn-113												
Sb-125												
I-125												
I-129												
Cs-134	9.04E-02	4.76E-02	5.00E-01	6.41E-02	5.16E-02							
Cs-137	6.66E-01	8.36E-01	2.66E+00	8.49E-01	6.21E-01	3.61E-01						
Eu-152												
Eu-154												
Eu-155												
Pb-212												
Pb-214												
Ra-226												
Ac-228												
Th-228												
Th-230	5.73E-04	5.74E-04	1.83E-03									
Th-231												
Th-232												
Th-234		6.06E-01		8.43E-01		3.99E-01						
U-234	5.72E-04	5.73E-04	1.83E-03	1.50E-03	1.06E-03	9.86E-04						
U-235												
U-236												
U-238	4.22E-04	4.23E-04	1.35E-03									
Pu-238												
Pu-239												
Pu-241												
Np-237												
Am-241	1.01E-03	1.01E-03	3.23E-03	1.29E-03	9.12E-04	8.48E-04						
Cm-244												
TOTAL	4.92E+03	1.35E+04	2.05E+03	3.33E+02	4.14E+02	3.65E+02						

This is to acknowledge the receipt of your letter/application dated

8/21/2007, and to inform you that the initial processing which includes an administrative review has been performed.

NOTIFICATION 37-23341-01
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 140969.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.