



A SUBSIDIARY OF UNIFIRST CORPORATION

May 31, 2007

NMSS

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

03020934

RE: License No. 37-23341-01 Quarterly Report – 1<sup>st</sup> Quarter 2007

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  $2.02 \times 10^{-2}$  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

2006 - 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									
H-3	3.38E-03	9.24E-03	4.37E-04									
C-14	1.85E-08	1.85E-08	1.85E-08									
K-40	NF	NF	2.58E-07									
Cr-51	NF	NF	NF									
Mn-54	1.74E-07	6.72E-08	3.52E-07									
Mn-56	NF	NF	NF									
Fe-55	9.85E-08	9.85E-08	9.85E-08									
Fe-59	NF	NF	NF									
Co-57	NF	NF	NF									
Co-58	3.83E-08	1.50E-08	9.21E-08									
Co-60	7.37E-07	2.62E-07	1.56E-06									
Ni-59	NF	NF	NF									
Ni-63	5.35E-07	5.35E-07	5.35E-07									
Zn-65	4.87E-08	NF	NF									
Sr-89	NF	NF	NF									
Sr-90	1.51E-08	1.51E-08	1.51E-08									
Zr-95	NF	NF	NF									
Nb-95	NF	NF	2.51E-08									
Tc-99	2.98E-07	2.98E-07	2.98E-07									
Ag-110m	NF	NF	NF									
Sn-113	NF	NF	NF									
Sb-125	NF	NF	NF									
I-125	NF	NF	NF									
I-129	<MDA	<MDA	<MDA									
Cs-134	6.21E-08	3.27E-08	1.08E-07									
Cs-137	4.58E-07	5.74E-07	5.72E-07									
Eu-152	NF	NF	NF									
Eu-154	NF	NF	NF									
Eu-155	NF	NF	NF									
Pb-212	NF	NF	NF									
Pb-214	NF	NF	NF									
Ra-226	NF	NF	NF									
Ac-228	NF	NF	NF									
Th-228	<MDA	<MDA	<MDA									
Th-230	3.94E-10	3.94E-10	3.94E-10									
Th-231	NF	NF	NF									
Th-232	<MDA	<MDA	<MDA									
Th-234	NF	4.16E-07	NF									
U-234	3.93E-10	3.93E-10	3.93E-10									
U-235	<MDA	<MDA	<MDA									
U-236	<MDA	<MDA	<MDA									
U-238	2.90E-10	2.90E-10	2.90E-10									
Pu-238	<MDA	<MDA	<MDA									
Pu-239	<MDA	<MDA	<MDA									
Pu-241	<MDA	<MDA	<MDA									
Np-237	<MDA	<MDA	<MDA									
Am-241	6.95E-10	6.95E-10	6.95E-10									
Cm-244	<MDA	<MDA	<MDA									
Total	3.38E-03	9.24E-03	4.41E-04									

Notes:

NF - Not found in gamma spectra search

&lt;MDA - Less than minimum detection limit for analytical method.

Sr-89/90 analyzed and reported as total Sr unless &gt;50 pCi/L. Conservatively assigned to Sr-90

March K-40 result reported at MDA value. Not used in pathway dose calculation.



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

5/31/2007, 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

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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 140 5833.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.