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June 20, 2001

Mr. John D. Kinneman
Chief, Nuclear Material Safety Branch 2
Division of Nuclear Material Safety
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

RE: License No. 37-23341-01 Quarterly Report- 1st Quarter 2001

Dear Mr. Kinneman:

In accordance with condition No. 16 of the referenced license, enclosed is the quarterly report for the first quarter 2001.

If you have any questions or comments, please contact Michael Fuller, Manager, Health Physics & Engineering or me at (413) 543-6911, extensions 25 and 27, respectively.

Sincerely,

William Stevenson, Radiation Protection Engineer
UniTech Services Group

cc: M. Fuller, Manager Health Physics and Engineering
Dan Neely, Plant Manager/RSO, UniTech Royersford

129481

NMSS/RGN MATERIALS-002



2000 - ROYERSFORD WASTEWATER DISCHARGE SUMMARY												
MONTH	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC
GALLONS	395000	500000	875000									
H-3	7.81E-06	7.81E-06	7.81E-06									
mCi H-3	11.676536	14.780425	25.865744									
C-14	3.55E-06	3.55E-06	3.55E-06									
mCi C-14	5.3075163	6.718375	11.757156									
K-40	1.98E-07	2.12E-07	ND									
Cr-51	ND	3.43E-07	5.89E-07									
Mn-54	4.51E-07	5.77E-07	7.92E-07									
Fe-55	9.88E-06	9.88E-06	9.88E-06									
Fe-59	ND	ND	ND									
Co-57	ND	ND	ND									
Co-58	7.89E-07	8.80E-07	6.02E-07									
Co-60	1.41E-06	1.72E-06	1.40E-06									
Ni-63	3.58E-07	3.58E-07	3.58E-07									
Zn-65	2.40E-07	ND	ND									
Sr-89	*	*	*									
Sr-90	5.39E-09	5.39E-09	5.39E-09									
Zr-95	ND	ND	5.64E-08									
Nb-95	5.06E-08	7.62E-08	7.47E-08									
Tc-99	4.37E-07	4.37E-07	4.37E-07									
Ag-110m	1.26E-07	ND	ND									
Sb-125	1.42E-07	ND	ND									
I-129	<MDA	<MDA	<MDA									
Cs-134	1.62E-07	3.46E-08	6.71E-08									
Cs-137	1.04E-06	4.58E-07	5.00E-07									
Eu-152	ND	ND	ND									
Eu-154	ND	ND	ND									
Ra-226	ND	ND	ND									
Th-228	ND	ND	ND									
Th-230	ND	ND	ND									
Th-232	ND	ND	ND									
Th-234	ND	ND	ND									
U-234	ND	ND	ND									
U-235	ND	ND	ND									
U-238	ND	ND	ND									
Pu-238	ND	ND	ND									
Pu-239	ND	ND	ND									
Np-237	ND	ND	ND									
Am-241	ND	ND	ND									
Cm-244	ND	ND	ND									
CONC.	1.53E-05	1.50E-05	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACTIVITY	22.853447	28.339128	48.883043	0	0	0	0	0	0	0	0	0

ANNUAL TOTALS
1770000 GALLONS

52.322705 mCi H-3

23.783048 mCi C-14

100.07562 mCi AORN

Notes: CONC. is total concentration for all nuclides except H-3 and C-14.

All concentrations are in uCi/ml. All activities are in mCi.

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

AORN - All other radionuclides (except for H-3 and C-14)

ND - No Data

[illegible]

