

A SUBSIDIARY OF UNIFIRST CORPORATION

RECEIVED
REGION 1

2002 NOV -8 AM 10: 29

Q-5

November 6, 2002

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

030-20934

RE: License No. 37-23341-01 Quarterly Report- 3rd Quarter 2002

Dear Mr. Kinneman:

In accordance with condition No. 16 of the referenced license, enclosed is the quarterly report for the third quarter 2002.

If you have any questions or comments, please contact Glenn Roberts at our Royersford facility, or me at (413) 543-6911 extension 25.

Sincerely,

Michael R. Fuller, Manager, HP&E
UniTech Services Group

cc: Glenn Roberts, Certified Health Physicist
Dan Neely, Plant Manager/RSO, UniTech Royersford

1 3 2 3 5 6



NMSS/RONI MATERIALS-002

2002 - ROYERSFORD WASTEWATER DISCHARGE SUMMARY												
MONTH	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC
GALLONS	612000	552500	1285000	855000	670000	455000	320000	280000	845000			
H-3	7.69E-06	7.69E-06	7.69E-06	7.45E-06	7.45E-06	7.45E-06	1.59E-05	1.59E-05	1.59E-05			
mCi H-3	17.8132698	16.0814241	37.402045	24.109504	18.8928275	12.8302038	19.25808	16.85082	50.8533675			
C-14	3.66E-06	3.66E-06	3.66E-06	3.46E-06	3.46E-06	3.46E-06	2.53E-06	2.53E-06	2.53E-06			
mCi C-14	8.4780972	7.65383775	17.801234	11.197166	8.774387	5.9587255	3.064336	2.681294	8.09176225			
K-40		2.42E-07			2.30E-07		2.10E-07					
Cr-51		8.32E-07	2.75E-07						2.67E-07			
Mn-54	1.15E-06	6.91E-07	7.13E-07	3.92E-07	1.30E-07	1.51E-07	1.96E-07	1.22E-07	2.56E-07			
Fe-55	9.48E-06	9.48E-06	9.48E-06	4.33E-06	4.33E-06	4.33E-06	2.35E-06	2.35E-06	2.35E-06			
Fe-59					3.50E-08							
Co-57												
Co-58	1.34E-06	7.16E-07	3.45E-07	4.87E-07	2.25E-07	1.28E-07	4.82E-08	4.08E-08				
Co-60	2.38E-06	1.09E-06	8.85E-07	5.82E-07	3.83E-07	4.36E-07	5.51E-07	2.91E-07	9.90E-07			
Ni-63	5.92E-07	5.92E-07	5.92E-07	7.00E-07	7.00E-07	7.00E-07	1.68E-07	1.68E-07	1.68E-07			
Zn-65							1.83E-07		8.62E-08			
Sr-89												
Sr-90	7.14E-09	7.14E-09	7.14E-09	2.79E-09	2.79E-09	2.79E-09	4.79E-09	4.79E-09	4.79E-09			
Zr-95			3.57E-08									
Nb-95	8.45E-08	3.22E-08	3.89E-08	7.73E-08	7.89E-08	3.70E-08						
Tc-99	1.05E-07	1.05E-07	1.05E-07	4.17E-08	4.17E-08	4.17E-08	2.05E-07	2.05E-07	2.05E-07			
Ag-110m	8.49E-08								2.80E-08			
Sn-113						2.14E-08						
Sb-125												
I-125												
I-129	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	6.53E-09	6.53E-09	6.53E-09			
Cs-134	8.11E-08	6.96E-08	6.31E-08	1.62E-07	5.13E-08	2.75E-08	3.03E-07	1.47E-07	1.18E-07			
Cs-137	9.23E-07	6.62E-07	1.33E-06	1.10E-06	7.01E-07	6.86E-07	6.36E-07	3.70E-07	3.00E-07			
Eu-152												
Eu-154												
Pb-212												
Ra-226												
Th-228												
Th-230												
Th-232												
Th-234		3.79E-07			3.18E-07	3.80E-07		<MDA				
U-234												
U-235												
U-238												
Pu-238												
Pu-239												
Np-237												
Am-241												
Cm-244												
CONC.	1.62E-05	1.49E-05	1.39E-05	7.87E-06	7.23E-06	6.94E-06	4.86E-06	3.70E-06	4.78E-06	0.00E+00	0.00E+00	0.00E+00
ACTIVITY	37.5844009	31.1577906	67.461763	25.480639	18.3249522	11.9555455	5.8890361	3.9259973	15.2806054	0	0	0

ANNUAL TOTALS
5874500 GALLONS

214.09154 mCi H-3

73.700839 mCi C-14

217.06073 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.

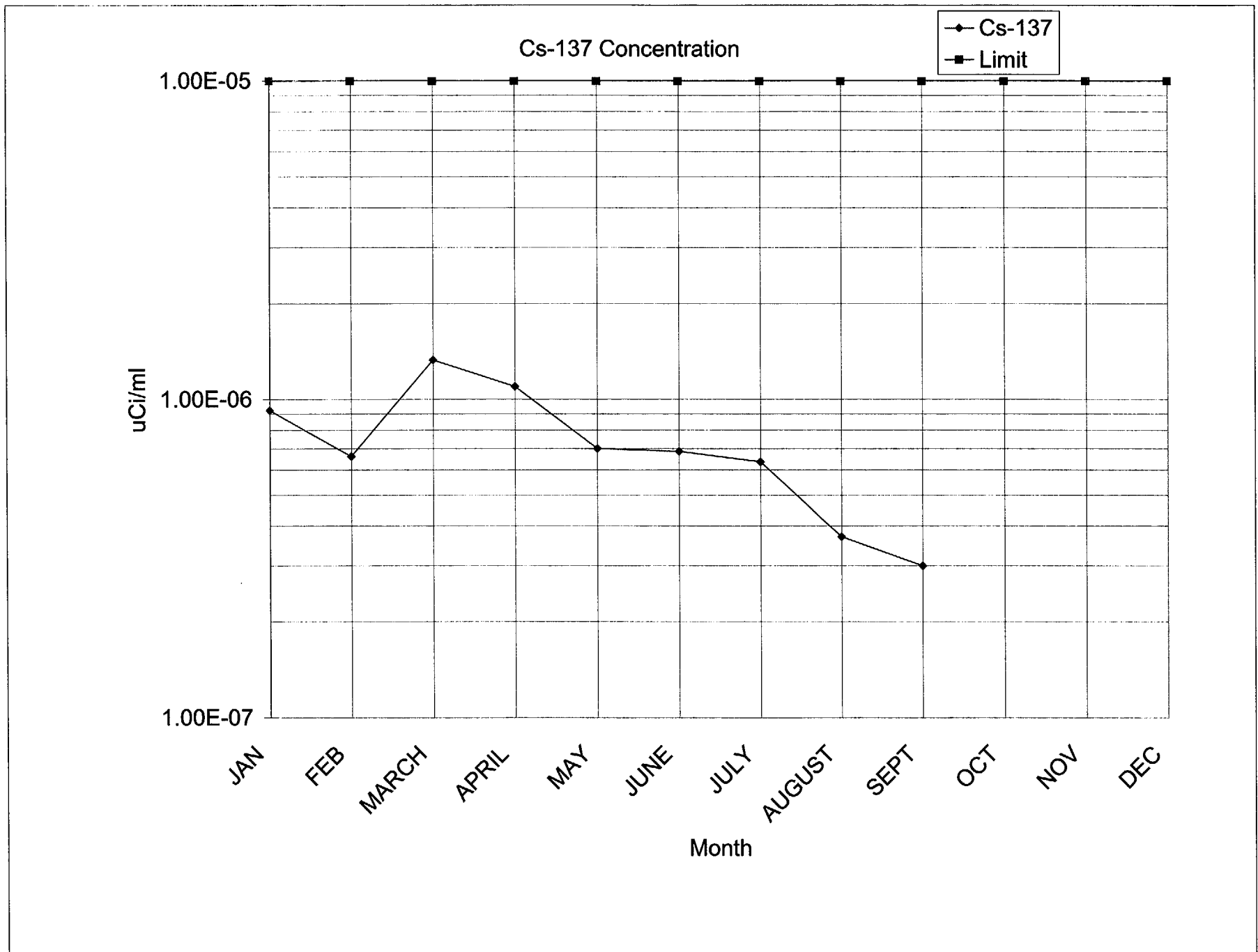
*Sr-89/90 analyzed and reported as total Sr unless >50 pCi/L. Conservatively assigned to Sr-90

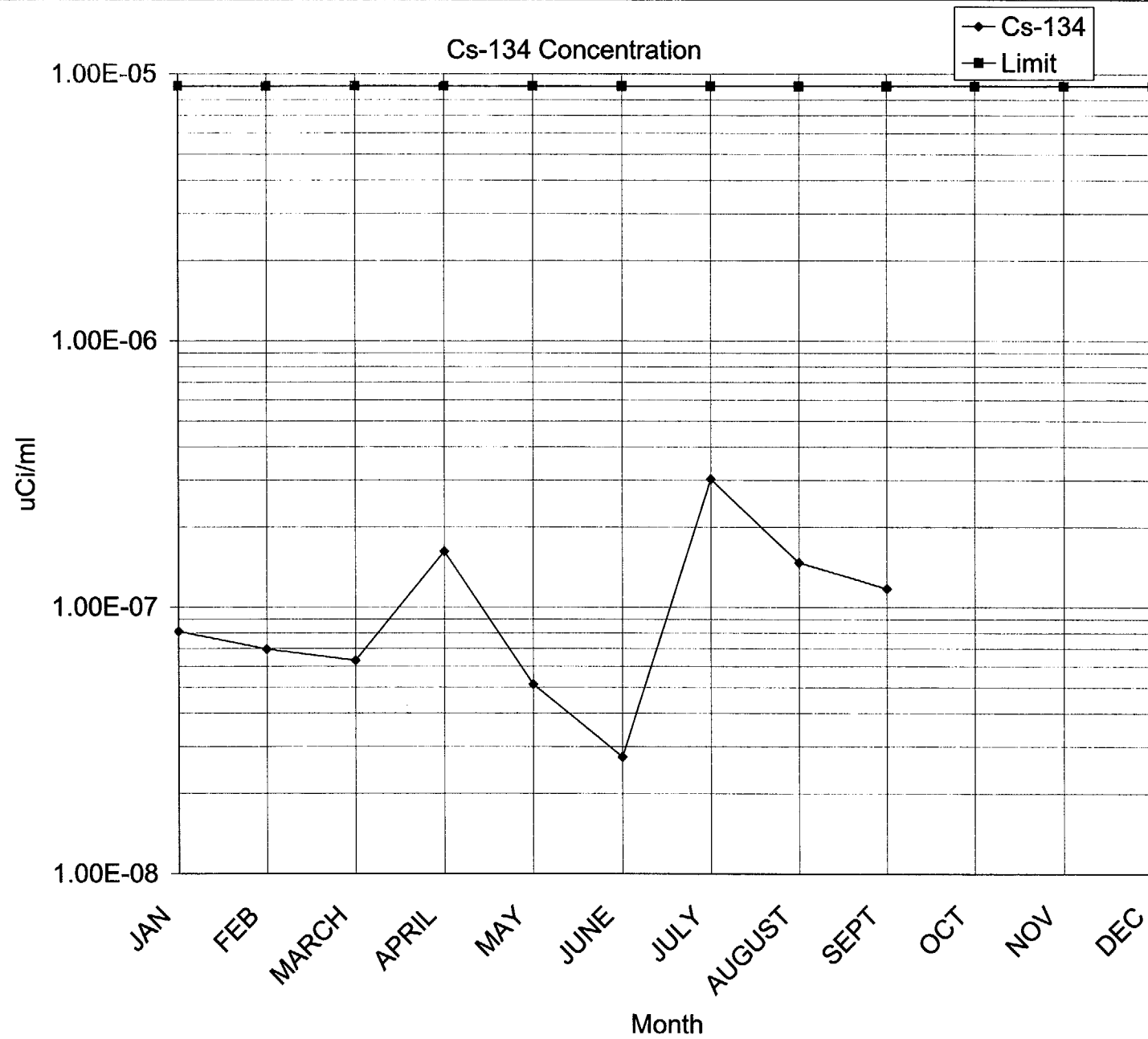
AORN - All other radionuclides (except for H-3 and C-14)

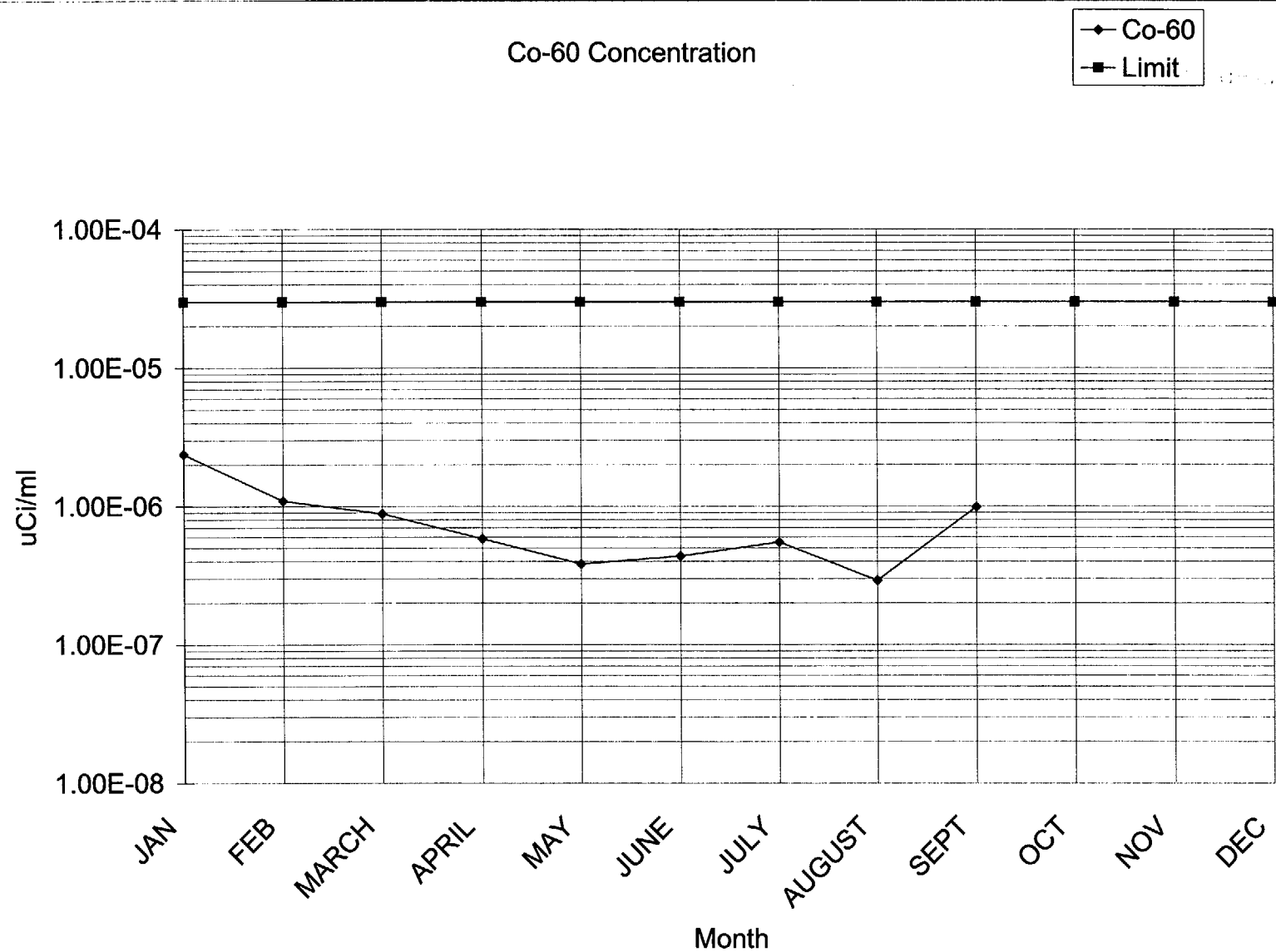
ND - No Data

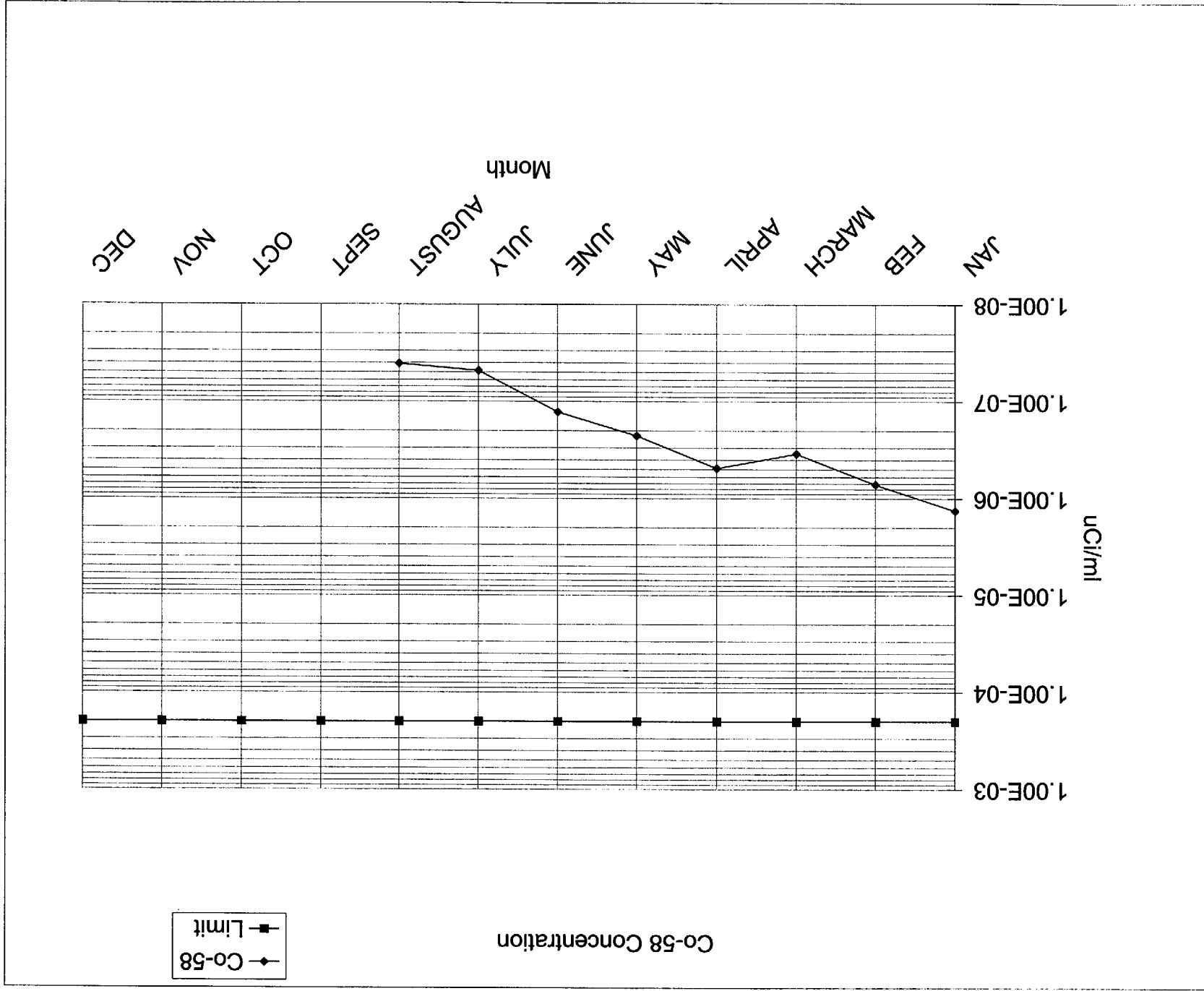
Ni-56 identified in Sept <MDA

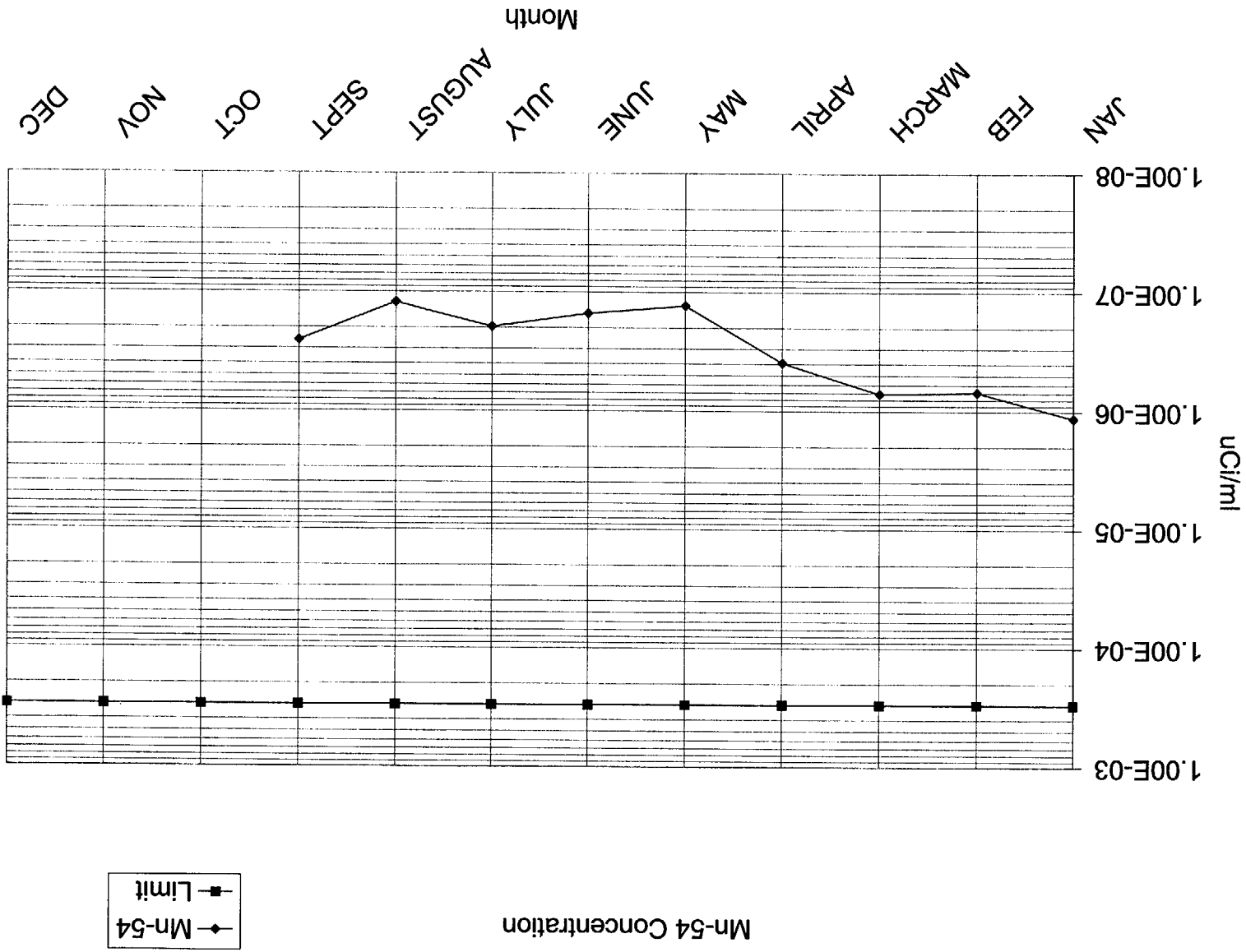
079 - ROYERSFORD RATIOS OF DISCHARGES TO LIMITS													
	LIMIT	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC
H-3	1.0E-02	0.00077	0.00077	0.00077	0.00075	0.00075	0.00075	0.00159	0.00159	0.00159			
C-14	3.0E-04	0.01220	0.01220	0.01220	0.01153	0.01153	0.01153	0.00843	0.00843	0.00843			
K-40	4.0E-05		0.00605			0.00574		0.00525					
Cr-51	5.0E-03		0.00017	0.00006						0.00005			
Mn-54	3.0E-04	0.00383	0.00230	0.00238	0.00131	0.00043	0.00050	0.00065	0.00041	0.00085			
Fe-55	1.0E-03	0.00948	0.00948	0.00948	0.00433	0.00433	0.00433	0.00235	0.00235	0.00235			
Fe-59	1.0E-04					0.00035							
Co-57	6.0E-04												
Co-58	2.0E-04	0.00670	0.00358	0.00172	0.00244	0.00113	0.00064	0.00024	0.00020				
Co-60	3.0E-05	0.07937	0.03640	0.02950	0.01941	0.01276	0.01454	0.01837	0.00968	0.03300			
Ni-63	1.0E-03	0.00059	0.00059	0.00059	0.00070	0.00070	0.00070	0.00017	0.00017	0.00017			
Zn-65	5.0E-05							0.00366		0.00172			
Sr-89	8.0E-05												
Sr-90	5.0E-06	0.00143	0.00143	0.00143	0.00056	0.00056	0.00056	0.00096	0.00096	0.00096			
Zr-95	2.0E-04			0.00018									
Nb-95	3.0E-04	0.00028	0.00011	0.00013	0.00026	0.00026	0.00012						
Tc-99	6.0E-04	0.00018	0.00018	0.00018	0.00007	0.00007	0.00007	0.00034	0.00034	0.00034			
Ag-110m	6.0E-05	0.00141								0.00047			
Sn-113	3.0E-05						0.00071						
Sb-125	3.0E-04												
I-125	2.0E-05												
I-129	2.0E-06							0.00327	0.00327	0.00327			
Cs-134	9.0E-06	0.00901	0.00773	0.00701	0.01800	0.00570	0.00305	0.03367	0.01632	0.01306			
Cs-137	1.0E-05	0.09226	0.06620	0.13300	0.10980	0.07006	0.06862	0.06361	0.03699	0.02995			
Eu-152	1.0E-04												
Eu-154	7.0E-05												
Pb-212	2.0E-06												
Ra-226	6.0E-07												
Th-228	2.0E-06												
Th-230	1.0E-06												
Th-232	5.0E-05												
Th-234	5.0E-05		0.00758			0.00636	0.00760						
U-234	3.0E-06												
U-235	3.0E-06												
U-238	3.0E-06												
Pu-238	2.0E-07												
Pu-239	2.0E-07												
Np-237	2.0E-07												
Am-241	2.0E-07												
Cm-244	3.0E-07												
TOTAL	1.00	0.21749	0.15476	0.19862	0.16915	0.12072	0.11372	0.14256	0.08071	0.09621	0.00000	0.00000	0.00000

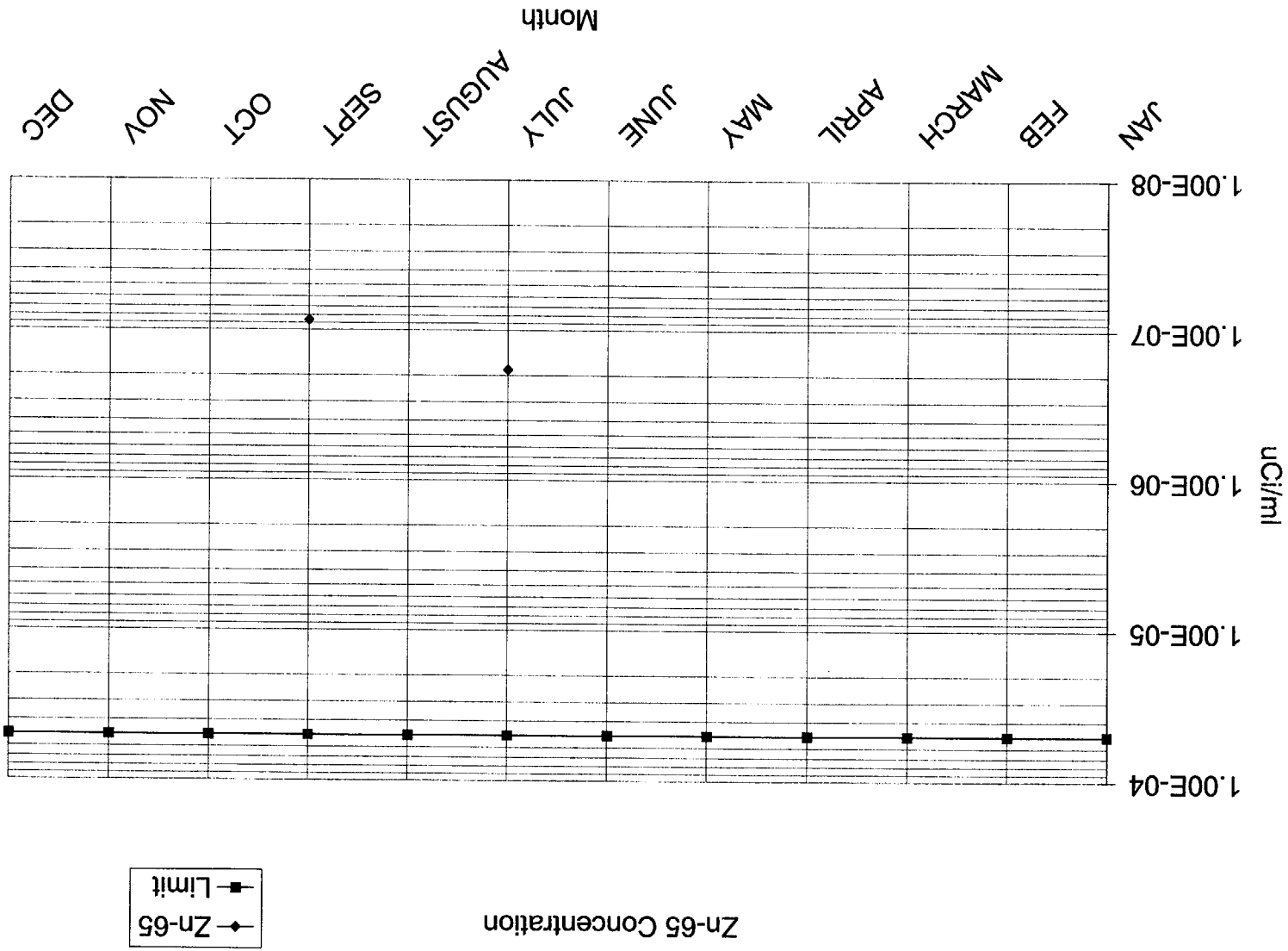












This is to acknowledge the receipt of your letter/application dated

11/6/2002, 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** 1 3 2 3 5 6.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

Sincerely,
Licensing Assistance Team Leader

BETWEEN: : (FOR LFMS USE)
 : INFORMATION FROM LTS
 : -----
 :
 License Fee Management Branch, ARM : Program Code: 03218
 and : Status Code: 0
 Regional Licensing Sections : Fee Category: 6A
 : Exp. Date: 20050831
 : Fee Comments: CALIBRATION IS FOR THEM
 : Decom Fin Assur Reqd: Y
 : ::

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED
Applicant/Licensee: UNITECH SERVICES GROUP, INC.
Received Date: 20021108
Docket No: 3020934
Control No.: 132356
License No.: 37-23341-01
Action Type: Notifications

2. FEE ATTACHED
Amount:
Check No.:

3. COMMENTS

Signed M. A. Perkins
Date 11/8/2002

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /__/_/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:
Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____