



**Commonwealth Edison**  
 Zion Generating Station  
 Shiloh Blvd. & Lake Michigan  
 Zion, Illinois 60099  
 Telephone 312/746-2084

TIC

May 25, 1979

Mr. James G. Keppler  
 Nuclear Regulatory Commission  
 Region III  
 799 Roosevelt Road  
 Glen Ellyn, Illinois 60132

Dear Mr. Keppler:

The results of the analyses for the 2nd quarter of 1979  
 Confirmatory Measurements Program are as follows:

<u>Sample Identification</u>	<u>Isotope</u>	<u>Activity</u>	<u>Date of Activity</u>
Iodine Cartridge Unit 1 Containment 4/11/79	I-131	6.8 E-5 uCi	4/11/79
Particulate Filter Unit 1 Containment 4/11/79	I-131	1.6 E-3 uCi	4/11/79
	I-133	7.5 E-4 uCi	4/11/79
	Cs-134	1.3 E-4 uCi	4/11/79
	Cs-137	1.9 E-4 uCi	4/11/79
	Co-58	4.5 E-5 uCi	4/11/79
	Co-60	2.8 E-5 uCi	4/11/79
F-64 DT #2-8 Charcoal Absorber 3/1/79	Ba-133	9.2 E-4 $\mu$ /min	4/11/79
	Co-57	1.3 E-3 uCi	4/11/79
	Co-60	9.6 E-3 uCi	4/11/79
	Cs-134	5.8 E-3 uCi	4/11/79
	Cs-137	1.6 E-2 uCi	4/11/79
H-64 DT #2-8 Charcoal Absorber 3/1/79	Ba-133	2.8 E-5 $\mu$ /min	4/11/79
	Co-57	2.0 E-3 uCi	4/11/79
	Co-60	1.7 E-2 uCi	4/11/79
	Cs-137	2.9 E-2 uCi	4/11/79
	Cs-134	1.0 E-2 uCi	4/11/79

519 . 074

05 1979

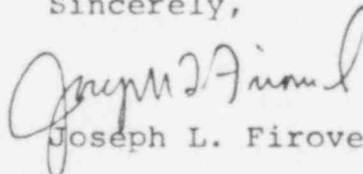
7907180094

R

<u>Sample Identification</u>	<u>Isotope</u>	<u>Activity</u>	<u>Date of Activity</u>
A-64 Particulate	Co-60	2.2 E-3 uCi	4/11/79
Filter	Co-57	4.5 E-4 uCi	4/11/79
3/8/79	Cs-134	1.8 E-3 uCi	4/11/79
	Cs-137	4.1 E-3 uCi	4/11/79
#1 Liquid Unknown	H-3	1.8 E-2 uCi/ml	5/9/79
1/24/79	Cs-134	1.9 E-3 uCi/ml	5/9/79
	Cs-137	2.7 E-3 uCi/ml	5/9/79
	Mn-54	1.1 E-4 uCi/ml	5/9/79
	Co-58	2.9 E-3 uCi/ml	5/9/79
	Co-60	6.7 E-4 uCi/ml	
#2 Liquid Unknown	H-3	8.7 E-3 uCi/ml	5/9/79
1/24/79	Cs-134	3.6 E-4 uCi/ml	5/24/79
	Cs-137	4.7 E-4 uCi/ml	5/24/79
	Co-58	1.5 E-5 uCi/ml	5/24/79
#1 Gas Bomb	Xe-131m	9.5 E-5 uCi/ml	4/11/79
2A GDT	Xe-133	1.5 E-3 uCi/ml	4/11/79
4/11/79 1025			
Liquid Waste OA	Cs-134	3.7 E-5 uCi/ml	4/11/79
Lake Discharge Tank	Cs-137	2.5 E-5 uCi/ml	4/11/79
0950 4/11/79	Co-60	4.3 E-5 uCi/ml	4/11/79
	Co-58	1.2 E-4 uCi/ml	4/11/79
	Na-24	1.3 E-5 uCi/ml	4/11/79
	Mn-54	5.0 E-6 uCi/ml	4/11/79
	Sb-124	5.9 E-6 uCi/ml	4/11/79
	Cr-51	5.9 E-5 uCi/ml	4/11/79
	Zr-95	2.6 E-6 uCi/ml	4/11/79
	Nb-95	7.4 E-6 uCi/ml	4/11/79
	Ag-110m	1.4 E-5 uCi/ml	4/11/79
Liquid Waste OA	H <sub>3</sub>	3.1 E-2 uCi/ml	5/7/79
Lake Discharge Tank	B <sup>7</sup>	8.9 E-5 uCi/ml	5/7/79


Sr-89 and Sr-90 results will be forwarded upon our receipt from contractor.

Sincerely,

  
Joseph L. Firoved

519 075

cc: Dr. R. F. Coley, PSA  
File

Approved:   
N. E. Wandke  
Station Superintendent