



APR 12 1974

Docket Nos. 50-237
and 50-249

B. J. Youngblood, Chief, Environmental Projects Branch 3, L

FORTHCOMING MEETING WITH COMMONWEALTH EDISON COMPANY - DRESDEN 2 & 3
ENVIRONMENTAL TECHNICAL SPECIFICATIONS

Date: Thursday, April 18, 1974

Time: 9:00 a.m.

Location: Room 014
Wall Lane

Purpose: To discuss the revised Draft Environmental Technical Specification submitted for Dresden 2 & 3.

Participants: CECO - J. Abel, et al
AEC - G. Chipman, J. Bolen

LS
G. L. Chipman, Project Manager
Light Water Reactors
Project Branch 1-1
Directorate of Licensing

cc: See attached list

29731
Memo
LS

OFFICE >						
SURNAME >						
DATE >						

Distribution

Docket File

AEC PDR

Local PDR

LWR 1-1 Reading

EP-3 Reading

L Reading (M. Groff)

H. Silver

E. G. Case

A. Giambusso

R. S. Boyd

R. W. Klecker

D. Eisenhut

R. C. DeYoung

V. Moore

R. Denise

D. Skovholt

D. Muller

D. B. Vassallo

W. Butler

K. Goller

J. Stolz

K. Kniel

A. Schwencer

R. Clark

R. Ireland

R. F. Schemel

D. L. Ziemann

P. L. Collins

G. W. Knighton

G. Dicker

B. J. Youngblood

W. H. Regan, Jr.

J. M. Hendrie

H. Denton

R. Maccary

R. Tedesco

V. Stello

V. Benaroya

C. Long

J. Kastner

R. Vollmer

G. Lainas

D. Ross

T. Ippolito

W. Houston

J. Knight

S. Pawlicki

L. Shao

B. Grimes

W. Gammill

R. Ballard

P. Fine

T. Novak

M. Spangler

R. F. Fraley, ACRS (16)

S. Varga

EP Project Manager -

OGC

RO (3)

RS (3)

J. Lee

Receptionist, Wall Lane

A. Kenneke

J. Bolen

J. Kline

R. Samworth

G. Chipman

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APR 11 1974

NOTE TO C. W. KUHLMAN

ACCEPTABILITY OF SAMPLE RESULTS

Note the April 3, 1974 letter from Region III to Commonwealth Edison Company with the attached results of split samples on effluents. This letter raises two questions: (1) Is this the proper avenue for informing Commonwealth Edison of the AEC results, and (2) How do the results of the other splits compare with the AEC results.

During the time in which we have had these cooperative agreements between AEC and the states, a question which frequently has arisen is how do we place on the public records the results of the split samples and how do we resolve significant differences in results. I surmise, prior to dispatching the April 3 letter, that Region III had resolved any differences to a satisfactory level.

Basically, my question concerning this letter is whether it follows your programmatic approach to placing in the public record the result of these samples.

Original signed by
J. G. Davis

John G. Davis, Deputy Director
for Field Operations

Enclosure:
As Stated

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OFFICE >	RO:DDFO					
SURNAME >	JGDavis;mm					
DATE >	4/10/74					

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UNITED STATES
ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

TELEPHONE
(312) 858-2660

APR 3 1974

Commonwealth Edison Company
ATTN: Mr. Byron Lee, Jr.
Vice President
P. O. Box 767
Chicago, Illinois 60690

Docket No. 50-10 ✓
Docket No. 50-237
Docket No. 50-249
Docket No. 50-254
Docket No. 50-265
Docket No. 50-295
Docket No. 50-304

Gentlemen:

Implementing the cooperative agreement between the AEC and the State of Illinois for monitoring of nuclear facilities in Illinois, representatives of the Region III, Directorate of Regulatory Operations office in conjunction with Illinois Department of Public Health personnel conducted effluent sample splits at your Dresden, Quad-Cities, and Zion facilities on the following dates during the 1973 calendar year:

Dresden:	April 4 October 1
Quad-Cities:	April 3 August 20 December 10
Zion:	August 21 December 11

The AEC portion of the split samples were analyzed by the Health Services Laboratory, Idaho Operations Office, Idaho Falls, Idaho. The results of these analyses are contained in the enclosures to this letter.

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No response to this letter is necessary; however, should you have any questions concerning these results, we will be pleased to discuss them with you or your representative. Mr. J. A. Pagliaro of my staff may be contacted for specific information.

Sincerely yours,

James G. Keppler
Regional Director

Enclosures:
As stated

cc: Verdun Randolph
Illinois Department of Public Health

bcc: RO Chief, FS&EB
RO:HQ (4)
Licensing (4)
DR Central Files
RO Files
PDR
Local PDR
NSIC
DTIE
OGC, Beth, P-505A
R. Penfrow, CC (2)
J. Davis, RO:HQ
C. Kuhlman, RO:HQ

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ENCLOSURE 1

HSL Results: 1973 Dresden Sample Splits

Liquid Sample (uCi/ml)

	<u>4-4-73</u>	<u>10-1-73</u>
Gross beta	2.5 \pm .1E-5	3.44 \pm .05E-6
H-3	1.18 \pm .02E-2	2.73 \pm .02E-3
Sr-89	6.4 \pm .8E-8	2 \pm 1E-8
Sr-90	1.7 \pm .4E-8	< 7E-9
Cr-51		9.7 \pm .7E-6
I-131	5.3 \pm .4E-6	1.32 \pm .03E-5
Cs-134	3.5 \pm .2E-6	
Cs-137	8.2 \pm .3E-6	6.0 \pm .7E-7
Zr-95	1.2 \pm .3E-6	
Nb-95	9 \pm 2E-7	
Co-58	1.96 \pm .04E-5	1.9 \pm .6E-7
Mn-54	5 \pm 2E-7	
Fe-59	1.2 \pm .3E-6	
Co-60	1.51 \pm .04E-5	1.2 \pm .1E-6
Ce-141	1.4 \pm .2E-6	2.0 \pm .1E-6
Ag-110m		4.3 \pm .7E-7
La-140	3.7 \pm .8E-7	1.6 \pm .4E-7

Results decay corrected to sample time except for gross beta and La-140 which are not decay corrected.

Gaseous Sample (uCi/ml)

	<u>4-4-73</u>	<u>10-1-73</u>
Xe-133	3.3 \pm .2E-1	2.51 \pm .08E-2
Xe-133m	1.12 \pm .07E-3	1.72 \pm .09E-3

All results decay corrected to sample time.

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Particulate Filter (uCi)

	<u>4-4-73</u>	<u>10-1-73</u>
I-131		8 ± 1E-4
Cs-134	4.0 ± .8E-5	
Cs-137	2.3 ± .1E-4	5.5 ± .6E-5
Co-60		9.9 ± .9E-5
Ba-140	4 ± 1E-4	1.56 ± .07E-3
La-140	1.6 ± .2E-4	3.3 ± .2E-4
Sr-89	4.84 ± .04E-3	
Sr-90	< 3E-6	

Results decay corrected to: 3-29-73 for 4-4-73 sample; 9-24-73 for 10-1-73 sample. (La-140 results not decay corrected.)

Charcoal Adsorber (uCi)

	<u>4-4-73</u>	<u>10-1-73</u>
I-131	2.5 ± .2E-3	3.68 ± .05E-1
Cs-137	9 ± 2E-5	

Results decay corrected to: 3-29-73 for 4-4-73 sample; 9-24-73 for 10-1-73 sample.

ENCLOSURE 2

NSL Results: 1973 Quad-Cities Sample Splits

Liquid Sample (uCi/ml)

	<u>4-3-73</u>	<u>8-20-73</u>	<u>12-10-73</u>
Gross beta	2.50 ± .01E-5	6.63 ± .06E-5	2.9 ± .1E-5
H-3	6.9 ± .1E-4	6.62 ± .06E-4	3 ± 1E-6
Sr-89	5.69 ± .05E-6	3.5 ± .1E-7	1.81 ± .03E-6
Sr-90	9 ± 4E-9	2.9 ± .5E-8	< 2E-8
Cr-51	2.4 ± .1E-5		4 ± 1E-6
I-131	1.12 ± .04E-5	8.0 ± .3E-5	1.29 ± .05E-5
Cs-134	9 ± 1E-7	1.12 ± .04E-5	1.8 ± .2E-6
Cs-137	1.6 ± .2E-6	3.8 ± .1E-5	5.2 ± .3E-6
Zr-95	1.6 ± .2E-6	2.6 ± .5E-6	8 ± 2E-7
Nb-95	2.0 ± .1E-6	6.9 ± .5E-6	1.2 ± .2E-6
Co-58	7.2 ± .2E-6	1.68 ± .05E-5	4.6 ± .3E-6
Mn-54	5.1 ± .2E-6	4.8 ± .3E-6	3.0 ± .2E-6
Zn-65	1.2 ± .2E-6	5.8 ± .6E-6	
Co-60	4.5 ± .2E-6	3.5 ± .1E-5	1.55 ± .04E-5
Fe-59			9 ± 2E-7
Sb-124	8 ± 2E-7		
La-140	3.5 ± .9E-7		3 ± 1E-7

Results decay corrected to sample time except for gross beta and La-140 which are not decay corrected.

Gaseous Sample (uCi/ml)

	<u>4-3-73</u>	<u>8-20-73</u>	<u>12-10-73</u>
Xe-133	1.35 ± .1E-1	1.92 ± .06E-1	< 2E-6
Xe-133m	4.7 ± .4E-3	1.33 ± .04E-2	
Xe-135		2.6 ± .1E-1	

All results decay corrected to sample time.

Particulate Filter (uCi)

	<u>4-3-73</u>	<u>8-20-73</u>	<u>12-10-73</u>
I-131	2.9 ± .7E-5		
Cs-137		< 3E-5	5.8 ± .7E-4
Sr-89	4.5 ± .4E-6		
Sr-90	8 ± 1E-7		

Results decay corrected to: 3-26-73 for 4-3-73 sample; 8-12-73 for 8-20-73 sample; 12-2-73 for 12-10-73 sample.

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Charcoal Adsorber (uCi)

	<u>4-3-73</u>	<u>8-20-73</u>	<u>12-10-73</u>
I-131	1.38 ± .07E-2	1.03 ± .04E-1	

Results decay corrected to: 4-3-73 for 4-3-73 sample; 8-20-73 for 8-20-73 sample; and 12-9-73 for 12-10-73 sample.

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ENCLOSURE 3

HSL Results: 1973 Zion Sample Splits

Liquid Sample (uCi/ml)

	<u>8-21-73</u>	<u>12-11-73</u>
Gross beta	5.08 \pm .05E-5	3.04 \pm .01E-3
H-3	1.02 \pm .01E-2	2.08 \pm .01E-2
Sr-89	1.88 \pm .03E-6	1.06 \pm .01E-5
Sr-90	2.3 \pm .4E-8	5 \pm 1E-8
Cr-51	9.8 \pm .4E-5	5.0 \pm .1E-3
I-131	2.7 \pm .1E-5	2.7 \pm .2E-4
Cs-137	< 3E-7	
Zr-95	4.6 \pm .4E-6	5.3 \pm .2E-4
Nb-95	2.7 \pm .2E-6	5.7 \pm .1E-4
Co-58	1.39 \pm .04E-5	1.38 \pm .01E-2
Mn-54	2.7 \pm .7E-7	1.39 \pm .01E-3
Fe-59		9.1 \pm .2E-4
Co-60	2.6 \pm .2E-7	5.4 \pm .1E-4
Co-57		1.0 \pm .3E-5
La-140	1.4 \pm .1E-6	3.0 \pm .3E-5

Results decay corrected to sample time except for gross beta and La-140 which are not decay corrected.

Gaseous Sample (uCi/ml)

	<u>8-21-73</u>	<u>12-11-73</u>
Xe-133	3.7 \pm .4E-4	6.5 \pm .3E-4

All results decay corrected to sample time.

Particulate Filter

No nuclides identified.

Charcoal Adsorber

No nuclides identified.

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