



Commonwealth Edison

Zion Generating Station  
Shiloh Blvd. & Lake Michigan  
Zion, Illinois 60099  
Telephone 708 / 746-2084

Deo

March 3, 1992  
ZRAD-92-013

U.S. Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Attn: Mr. A. Bert Davis  
Regional Administrator

Gentlemen:

This letter refers to Inspection Reports No. 50-295/91024(DRSS) and No. 50-304/91024(DRSS), specifically Open Items Nos. 50-295/91024-01 and 50-304/91024-01; which were the result of a routine inspection conducted by A. G. Januska of the USNRC Region III from October 7th to October 11th, 1991.

The Open Items were a result of the need for analysis to be performed by off-site vendors. Please find the attached report of the Boric Acid Monitoring Tank 1B sample analysis performed by TMA/Norcal for gross alpha, H-3, Sr-89, Sr-90, and Fe55. Also attached is the result of the gross beta analyses performed at Zion Station on November 1, 1991 at 0900 hours CDT.

Any additional information or further questions will gladly be addressed by J. A. Heaton, Zion Station Chemistry department, (708) 746-2084 ext. 2558.

Sincerely,

T. P. Joyce  
Station Manager  
Zion Station

TPJ/dmg

w/attachment:

cc: A. G. Januska (USNRC RIII)  
J. D. Smith, Senior Resident Inspector (Zion Station)  
S. Stimac (NLA)  
R. Chrzanowski (Regulatory Assurance)  
B. Schramer (Chemistry)  
K. Dickerson (Regulatory Assurance)

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SPLIT SAMPLE RESULTS  
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ANALYSES PERFORMED BY VENDOR LAB TMA/NORCAL  
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SAMPLE NAME:  
BORIC ACID MONITOR TANK 1B

REFERENCE TIME/DATE:  
0900 HOURS CDT 10/08/91

ALL RESULTS DECAY CORRECTED, (EXCEPT BETA) TO 0900 HOURS CDT 10/08/91.  
BETA ANALYSES PERFORMED BY ZION, STATION ON 11/1/91 AT 0900 HOURS CDT.  
BETA RESULT ON FOLLOWING PAGE.

ANALYSES -----	RESULTS -----
Gross Alpha	5.61 E-09 uCi/ml
H-3	4.28 E-02 uCi/ml
Fe-55	4.88 E-06 uCi/ml
Sr-89	3.56 E-08 uCi/ml
Sr-90	2.35 E-09 uCi/ml

*James A. Heaton*  
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Reviewed by

*Chemistry*  
-----  
Department

*3/2/92*  
-----  
Date

BETA WATER GROSS ACTIVITY  
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SAMPLE NAME:  
1B BANT (BORIC ACID MONITOR TANK 1B)

TIME SAMPLE OBTAINED: 0900 HOURS CDT  
DATE SAMPLE OBTAINED: 08-OCTOBER-91

DATE SAMPLE ANALYZED: 01-NOVEMBER-91  
TIME SAMPLE ANALYZED: 0900 HOURS CDT

SAMPLE DECAY CORRECTED TO 01-NOVEMBER-91 AT 0900HRS CDT  
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LOWER LIMIT OF DETECTABILITY(UCI/ML) =  $3.7E-7$  uCi/mL

BETA GROSS ACTIVITY(UCI/ML) =  $2.84E-6$  uCi/mL

James A. Heaton  
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CHEMISTS SIGNATURE

11/1/91  
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DATE