~~101341~~ 1984

DOSE DUE TO DRINKING WATER AT K-25 AND KINGSTON

The following assumptions were made for the drinking water dose calculations:

1. The dose conversion factor was based upon the consumption of 2.2 liters times 365 days per year of water contaminated with 8 pCi/liter of Sr-90 being equivalent to a dose commitment to the endosteal cells of 4 mrem.

2. At Kingston it was assumed that the water was consumed at the rate of 2.2 liters per day during the period December 3 through December 29. The data for concentrations was taken from the raw water supply since the data on processed water was limited, and for those samples for which data was available on both raw and processed water, the results were statistically the same.

3. At K-25 it was assumed that water consumption started on December 2 and was consumed 5 days per work week and at the rate of 1 liter per day through December 29 except as follows: On December 3 consumption was only 1/2 liter since water consumption was halted approximately mid-day. No water was consumed from the K-25 supply from mid-day on December 3 through December 12. The concentrations were from inlet Gallaher samples except for December 2 and 3 when processed water data showing a concentration of 32.5 pCi/liter was used.

Using the above assumptions, the dose commitment to an individiual living at Kingston would be 0.08 mrem to the endosteal cells while the K-25 worker would have a commitment of 0.06 mrem. Evem though the concentrations in K-25 water samples were higher than those observed at Kingston, the dose commitment for the K-25 worker was slightly less than that for the individual at Kingston because the K-25 worker drank a total of 13.6 liters from the river supply during the same period of time that the Kingston individual consumed 59.4 liters.

.080

0.00 .1

#510

∴ K-25 discontinued ~~[illegible]~~ intake of water on Dec 2 and restarted intake on Dec 4 late

Jan 13th 7:30 AM in 3047 Conf. Rm.
Broken pipe's were source for water contact below excavation

Facts

Kingston H_2O Plant - Did not open at all on Dec 4th
⇒ Resumed on 5th

5pm on Dec. 2 Paul Rhower notified DOE - Susan LesStrange

DOE should set up one single contact point for Energy System

Recommendations - must have basis with it

1. Review & upgrade as necessary of project Planning documents - all - are they providing objectives
2. Measures implemented
3. Prepare Radioactive Containment Plan for Site - Predetermine means for ascertaining problems
4. Prepare an Energy Plan for implementing radioactive Containment Plan
5. Review capabilities of Detection system for radioactive Discharges
6.

Levy, Mike

101344

Message 752, 13722 bytes)
Date: 2 Jan 1986 1424
From: parzyck
Sender: jenningd at CSDVAX1
Subject: update environmental samples
To: keens, gollihrw, furth, dcj, duncan, parzyck
Cc: parzyck

1986 JAN -8 PM 4:21

SAMPLING POINTS ALONG THE RIVER (Bq Sr-90/L)

DATE	TIME	GALLAHER	CRM-10	CENTERS FERRY	KINGSTON	KINGSTON PROC
12/3/85	11:00	0.27+/-0.20	0.23+/-0.17	0.74+/-0.24	0.19+/-0.18	
12/3/85	17:00	0.21+/-0.11	0.11+/-0.09	0.66+/-0.16	0.14+/-0.08	0.10+/-0.08
12/3/85	22:00	0.28+/-0.12	0.23+/-0.17	0.49+/-0.14	0.16+/-0.10	
12/4/85	02:50	0.24+/-0.12	0.48+/-0.18	0.85+/-0.21	0.22+/-0.11	
12/4/85	18:00	0.01+/-0.064	0.59+/-0.17	0.53+/-0.14	0.049+/-0.073	
12/4/85	24:00	0.021+/-0.055	0.15+/-0.07	0.27+/-0.10	0.33+/-0.10	
12/5/85	06:00	0.057+/-0.053	0.040+/-0.047	0.068+/-0.058	0.086+/-0.086	
12/5/85	12:00	0.15+/-0.07	0.15+/-0.07	0.42+/-0.051	0.016+/-0.059	0.023+/-0.050
12/5/85	16:00	0.34+/-0.10	0.050+/-0.045	0.13+/-0.07	0.038+/-0.065	0.21+/-0.08
12/5/85	24:00	0.44+/-0.11	0.088+/-0.056	0.12+/-0.07	0.20+/-0.08	
(Hit RETURN to continue)						
12/6/85	06:00	0.50+/-0.11	0.30+/-0.08	0.024+/-0.04	0.1+/-0.06	
12/6/85	10:00	0.50+/-0.11	0.48+/-0.09	0.088+/-0.059	0.018+/-0.048	0.012+/-0.040
12/6/85	17:00	0.51+/-0.12	0.42+/-0.10	0.03+/-0.05	0.01+/-0.05	0.13+/-0.08
12/6/85	22:30	0.48+/-0.10	0.50+/-0.11	0.19+/-0.08	0.18+/-0.09	
12/7/85	04:30	0.40+/-0.14	0.54+/-0.11	0.31+/-0.09	0.06+/-0.05	
12/7/85	12:00	0.59+/-0.11	0.60+/-0.12	0.46+/-0.10	0.084+/-0.059	0.20+/-0.28
12/[illegible]5	17:00	0.55+/-0.11	0.60+/-0.11	0.33+/-0.09	0.19+/-0.11	0.03+/-0.05
12/[illegible]85	23:00	0.35+/-0.09	0.43+/-0.09	0.40+/-0.09	0.01+/-0.04	
12/8/85	05:00	0.41+/-0.11	0.61+/-0.13	0.52+/-0.14	0.09+/-0.08	
12/8/85	11:00	0.49+/-0.12	0.51+/-0.11	0.46+/-0.10	0.071+/-0.066	0.035+/-0.053
12/8/85	18:00	0.53+/-0.13	0.47+/-0.10	0.53+/-0.11	0.048+/-0.052	0.11+/-0.07
12/8/85	23:00	0.52+/-0.20	0.46+/-0.16	0.49+/-0.25	0.047+/-0.096	
12/9/85	06:00	0.35+/-0.10	0.37+/-0.11	0.69+/-0.14	0.20+/-0.10	
12/9/85	11:00	0.31+/-0.10	0.33+/-0.10	0.45+/-0.11	0.10+/-0.08	0.08+/-0.06
12/9/85	17:00	0.28+/-0.10	0.40+/-0.12	0.32+/-0.11	0.079+/-.078	0.22+/-0.10
12/9/85	23:00	0.31+/-0.16	0.38+/-0.15	0.28+/-0.14	0.043+/-0.085	
12/10/85	05:00	0.27+/-0.09	0.29+/-0.09	0.35+/-0.12	0.074+/-0.080	
12/10/85	12:00	0.23+/-0.10	0.30+/-0.09	0.44+/-0.10	0.028+/-0.057	0.15+/-0.07
12/10/85	18:00	0.15+/-0.06	0.24+/-0.08	0.23+/-0.07	0.11+/-0.08	0.21+/-0.08
12/10/85	23:00	0.21+/-0.08	0.22+/-0.08	0.51+/-0.12	0.02+/-0.06	
12/11/85	05:00	0.21+/-0.08	0.23+/-0.08	0.42+/-0.11	0.021+/-0.054	
12/11/85	12:00	0.19+/-0.09	0.33+/-0.12	0.35+/-0.10	0.056+/-0.065	0.003+/-0.064
12/11/85	18:00	0.19+/-0.08	0.21+/-0.08	0.36+/-0.10	0.11+/-0.05	0.01+/-0.04
(Hit RETURN to continue)						
12/11/85	23:00	0.18+/-0.07	0.16+/-0.07	0.30+/-0.09	0.06+/-0.07	
12/12/85	05:00	0.19+/-0.08	0.16+/-0.07	0.29+/-0.09	0.02+/-0.04	
12/12/85	11:00	0.10+/-0.07	0.15+/-0.08	0.19+/-0.09	0.04+/-0.05	0.054+/-0.07
12/12/85	17:00	0.14+/-0.07	0.15+/-0.07	0.20+/-0.08	0.11+/-0.06	0.02+/-0.04
12/13/85	05:00	0.19+/-0.08		0.28+/-0.09	0.014+/-0.006	
12/13/85	18:00	0.20+/-0.07		0.27+/-0.10	0.12+/-0.13	0.002+/-0.054
12/14/85	05:00	0.21+/-0.11		0.18+/-0.08	0.17+/-0.09	
12/[illegible]/85	17:00	0.16+/-0.08		0.22+/-0.09	less than 0.04	less than 0.05
12/[illegible]85	06:00	0.14+/-0.08		0.17+/-0.08	less than 0.04	
12/15/85	17:00	0.25+/-0.11		0.11+/-0.08	less than 0.06	less than 0.07

SAMPLING POINTS ALONG THE RIVER (Bq Sr-90/L)

DATE	TIME	GALLAHER	K-25 PROCESS	CENTERS FERRY	KINGSTON	KINGSTON PROC.
12/16/85	05:00	0.32+/-0.11		0.13+/-0.06	0.07+/-0.07	
12/[illegible]/85	15:00	0.26+/-0.10		0.16+/-0.07	0.087+/-0.064	0.069+/-0.053
12/[illegible]/85	17:00	0.31+/-0.12	0.18+/-0.11			
2/16/85	22:00	0.37+/-0.08	0.17+/-0.07	0.18+/-0.07	0.14+/-0.06	
2/17/85	08:00	0.19+/-0.08		0.12+/-0.06	0.01+/-0.03	
2/17/85	16:00	0.28+/-0.11		0.36+/-0.11	less than 0.06	0.03+/-0.06
2/17/85	22:00	0.42+/-0.11		0.14+/-0.08	0.06+/-0.05	
Hit RETURN to continue)						
2/18/85	08:00	0.22+/-0.07	0.16+/-0.07	0.19+/-0.07	0.048+/-0.044	
2/18/85	16:00	0.05+/-0.05	0.21+/-0.08	0.17+/-0.08	0.05+/-0.07	0.06+/-0.06
2/18/85	23:00	0.19+/-0.07		0.14+/-0.07	0.02+/-0.05	
2/19/85	08:00	0.15+/-0.08	0.13+/-0.08	0.15+/-0.09	0.02+/-0.06	
2/19/85	16:00	0.14+/-0.07	0.06+/-0.05	0.18+/-0.07	0.08+/-0.06	less than 0.04
2/19/85	23:00	0.23+/-0.12	0.05+/-0.07	0.10+/-0.07	0.16+/-0.08	
2/20/85	07:00	0.06+/-0.05	0.09+/-0.05	0.13+/-0.06	0.10+/-0.06	
2/20/85	16:00	0.18+/-0.18	0.067+/-0.091	0.052+/-0.063	0.029+/-0.072	0.067+/-0.079
2/21/85	05:00	0.068+/-0.090	0.15+/-0.13	0.13+/-0.09	0.04+/-0.011	
2/21/85	16:00	0.085+/-0.057	0.035+/-0.053	0.068+/-0.059	0.072+/-0.063	0.031+/-0.047
2/22/85	05:00	0.13+/-0.08	0.11+/-0.07	0.19+/-0.08	0.022+/-0.048	0.092+/-0.066
2/22/85	15:00	less than 0.04	0.077+/-0.060	0.082+/-0.064	0.054+/-0.056	
2/23/85	05:00	0.11+/-0.034	0.076+/-0.054	0.15+/-0.07	0.15+/-0.08	0.11+/-0.060
2/23/85	15:00	0.070+/-0.057	0.091+/-0.067	0.053+/-0.054	.096+/-0.067	0.01+/-.043
2/24/85	05:00	0.12+/-0.07	0.10+/-0.07	0.10+/-0.06	0.07+/-0.05	
2/24/85	15:00	0.069+/-0.06	0.099+/-0.066	0.10+/-0.06	0.085+/-0.062	0.027+/-0.051
2/25/85	03:00	0.068+/-0.055	0.064+/-0.060	0.076+/-0.058	0.058+/-0.051	
2/25/85	15:00	0.13+/-0.07	0.07+/-0.05	0.12+/-0.06	0.13+/-0.07	0.09+/-0.06
2/[illegible]/85	05:00	0.15+/-0.07	0.12+/-0.07	0.08+/-0.06	0.06+/-0.06	
12/[illegible]/85	07:00	0.03+/-0.05	0.07+/-0.06		0.004+/-0.045	
2/28/85	07:00	0.073+/-0.064	0.085+/-0.064		0.13+/-0.08	
2/29/85	07:00	0.08+/-0.06	Less than 0.05		0.06+/-0.06	
2/30/85	07:00	0.07+/-0.05	0.07+/- 0.05		Less than 0.03	
Hit RETURN to continue)						
12/31/85	07:00	0.19+/-0.09	0.093+/- 0.064		0.072 +/- 0.058	
1/1/86	07:00	0.063+/-.055	0.029+/- 0.047		0.081+/- 0.058	

0792[illegible]:dkj
1/2[illegible]6

SAMPLING POINTS AT ORNL SITE (Bq Sr-90/L)

(Hit RETURN to continue)

DATE	TIME	WOD	7500 Bridge	STP Infl	STP Effl	FLUME
12/[illegible]/85	11:00	9.9	270			
12/2/85	11:00	160*				
12/2/85	17:00	170*	260	680	300	1.1
12/3/85	02:00	210*	230	41	3.6	1.5
12/3/85	08:58	160*				0.9
12/3/85	23:15	180+/-10*	120+/-10	1200+/-100	710+/-20	
12/4/85	03:25	190+/-10*	130+/-10			
12/4/85	18:30	170+/-10*	54+/-2	650+/-10	500+/-10	
12/4/85	23:35	160+/-10	41+/-2	610+/-10	520+/-10	
12/5/85	05:25	130+/-10	21+/-1	580+/-20	490+/-10	
12/5/85	12:00	130+/-10	74+/-3	343+/-7	447+/-12	
12/5/85	18:00	130+/-10	40+/-2	430+/-10	430+/-10	
12/5/85	23:50	130+/-10	29+/-2	520+/-10	460+/-10	
12/6/85	05:33	140+/-10	17+/-1	460+/-10	330+/-10	
12/6/85	10:00	110+/-10	31+/-1	270+/-10	420+/-10	
12/6/85	17:00	130+/-10	45+/-2	480+/-10	460+/-10	
12/6/85	23:00	110+/-10	30+/-2	980+/-20	420+/-10	
12/7/85	05:30	84+/-2	18+/-1	450+/-10	330+/-10	
12/7/85	12:00	76+/-2	23+/-1	420+/-10	360+/-10	
12/7/85	17:00	69+/-3	21+/-2	410+/-10	340+/-10	
12/7/85	23:00	85+/-3	23+/-2	460+/-10	350+/-10	
(Hit RETURN to continue)						
12/8/85	05:00	80+/-2	19+/-1	720+/-10	410+/-10	
12/8/85	11:00	60+/-2	25+/-1	570+/-10	410+/-10	
12/8/85	18:00	48+/-2	24+/-2	390+/-10	380+/-10	
12/[illegible]/85	23:00	47+/-2	28+/-1	440+/-10	420+/-10	
12/9/85	06:00	47+/-2	19+/-1	320+/-10	350+/-10	
12/9/85	11:00	36+/-1	33+/-1	283+/-10	440+/-10	
12/9/85	17:00	33+/-1	35+/-2	310+/-10	480+/-10	
12/9/85	23:00	36+/-2	23+/-1	540+/-10	380+/-10	
12/10/85	05:00	32+/-1	17+/-1	520+/-10	310+/-10	
12/10/85	12:00	30+/-2	27+/-1	220+/-10	370+/-10	
12/10/85	18:00	28+/-1	26+/-1	230+/-10	270+/-10	
12/10/85	23:00	36+/-2	17+/-1	510+/-10	350+/-10	
12/11/85	05:00	33+/-2	17+/-1	560+/-10	330+/-10	
12/11/85	12:00	36+/-2	5.0+/-0.5	220+/-10	59+/-3	
12/11/85	18:00	29+/-1	21+/-1	230+/-10	360+/-10	
12/11/85	23:00	30+/-1	15+/-1	410+/-10	400+/-10	
12/12/85	05:00	30+/-1	19+/-1	630+/-10	360+/-10	
12/12/85	11:00	27+/-1	33+/-2	310+/-20	430+/-30	
12/12/85	17:00	20+/-1	34+/-2	400+/-40	450+/-40	
12/12/85	24:00	18+/-1	10+/-1	320+/-30	420+/-40	
12/13/85	05:00	22+/-1	6.7+/-0.7	510+/-30	340+/-20	
12/13/85	12:00	26+/-1	22+/-1	230+/-20	450+/-30	
12/13/85	18:00	22+/-1	18+/-1	280+/-20	400+/-30	
(Hit RETURN to continue)						
12/13/85	24:00	25+/-1	13+/-1	70+/-11	360+/-20	
12/14/85	05:00	26+/-1	7.6+/-0.7	16+/-2	360+/-30	
12/14/85	12:00	25+/-1	11+/-1	12+/-5	380+/-30	
12/14/85	17:00	19+/-1	10+/-1	9.7+/-5.3	300+/-30	
12/[illegible]/85	22:00	23+/-1	10+/-1	18+/-6	310+/-30	
12/15/85	06:00	25+/-1	7.9+/-0.8	14+/-6	241+/-20	
12/15/85	12:00	23+/-1	6+/-1	5.2+/-0.6	180+/-10	

SAMPLING POINTS AT ORNL SITE (Bq Sr-90/L)

DATE	TIME	WOD	7500 Bridge	STP Infl	STP Effl
12/15/85	17:00	22+/-1	9.3+/-0.8	11+/-1	250+/-10
12/15/85	23:00	17+/-1	8.7+/-0.7	7.8+/-0.7	200+/-10
12/16/85	05:00	22+/-1	7.7+/-0.7	9.1+/-1.2	220+/-10
12/16/85	11:00	20+/-1	20+/-2	5.7+/-0.7	290+/-10
12/16/85	15:00	19+/-1	16+/-1	4.6+/-0.5	240+/-10
12/16/85	22:00	5.5+/-0.4	3.4+/-0.3	8.0+/-0.8	230+/-10
12/17/85	08:00	5.7+/-0.3	2.8+/-0.3	7.9+/-0.8	220+/-10
12/17/85	16:00	17+/-1	16+/-1	4.7+/-0.6	210+/-5
12/17/85	22:00	16+/-1	10+/-1	6.6+/-0.8	190+/-10
12/18/85	08:00	13+/-1	7.4+/-0.7	4.9+/-0.6	130+/-10
12/18/85	16:00	13+/-1	12+/-1	17+/-1	160+/-10
(Hit RETURN to continue)					
12/18/85	23:00	17+/-1	9.1+/-0.8	4.6+/-0.6	140+/-10
12/19/85	08:00	17+/-1	5.7+/-0.6	4.3+/-0.6	130+/-10
12/19/85	16:00	14+/-1	9.6+/-0.8	6.6+/-0.7	130+/-10
12/19/85	23:00	17+/-1	5.7+/-0.6	6.6+/-0.7	120+/-10
12/20/85	07:00	14+/-1	6.1+/-0.6	5.3+/-0.6	90+/-2
12/20/85	16:00	17+/-1	15+/-1	5.7+/-0.7	111+/-3
12/21/85	05:00	14+/-1	5.1+/-0.6	5.7+/-0.7	88+/-3
12/21/85	16:00	15+/-1	7+/-0.8	5.1+/-0.7	83+/-3
12/22/85	05:00	14+/-1	5.2+/-0.6	5.0+/-0.6	71+/-2
12/22/85	15:00	13+/-1	6.0+/-0.7	4.8+/-0.6	89+/-3
12/23/85	05:00	13+/-1	5.8+/-0.6	5.6+/-0.7	65+/-2
12/23/85	15:00	11+/-1	5.6+/-0.6	4.9+/-0.6	68+/-2
12/24/85	05:00	11+/-1	3.7+/-0.5	4.5+/-0.6	60+/-2
12/24/85	15:00	11+/-1	5.0+/-0.6	5.4+/-0.6	51+/-2
12/25/85	03:00	11+/-1	7.7+/-0.7	6.5+/-0.7	53+/-2
12/25/85	15:00	12+/-1	13+/-1	6.0+/-0.7	50+/-2
12/26/85	05:00	11+/-1	15+/-1	6.1+/-0.6	46+/-2
12/27/85	07:00	11+/-1	4.5+/-0.6	20+/-1	34+/-1
12/28/85	07:00	14+/-1	27+/-2	4.8+/-0.7	41+/-2
12/29/85	07:00	9.6+/-1	16+/-1	3.0+/-0.4	19+/-1
12/30/85	07:00	15+/-1	4.1+/-0.5	3.9+/-0.5	32+/-2
12/31/85	07:00	16+/-1	3.2+/-0.5	3.6+/-0.5	23+/-1
1/1/86	07:00	14+/-1	3.6+/-0.5	7.3+/-0.9	26+/-1
(Hit RETURN to continue)					

*WOD Grab
1/2/86
0792o:dkj

<-

ChemRisk Document Request Transmittal Form

(This section to be completed by ChemRisk)

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Name Division is requested to provide the following document

Address _____

Date of Request 12/10 Expected receipt of document 12/21

Title of requested document Update Environmental Samples

Document Number 101344

Access Number of Document _____ Date of Document Jan 1986

(This section to be completed by Derivative Classifier)

Derivative Classifier R. G. Jordan Phone 41645

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Date release received from Dr. Quist OK OSJ 1/29/93

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AJ Zuist 2/1/93

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Signature: Date

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Document number UNNUMBERED/101344 Pages 6

Document title ~~SAMPLING POINTS ALONG THE RIVER (BQ SR 90/L)~~

Author(s) (indicate other divisions or organizations, if applicable) PARZYCK

Document type (See Doc. Prep. Guide, Chs. 1 and 2, for definitions of document types):

- ☐ Formal Report
- ☑ Progress Report
- ☐ Informal R&D Report
- ☐ Abstract
- ☐ Drawing
- ☐ Administrative
- ☐ Correspondence
- ☐ Internal Technical Data
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DOCUMENT TITLE: DOSE DUE TO DRINKING WATER AT K-25 AND KINGSTON

AUTHORS: NO AUTHOR GIVEN

DOCUMENT TYPE: PROGRESS REPORT

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