

## ATTACHMENT A

## CLARIFICATION OF VALUES

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## Tables 1A and 2A

All references to Percent of Technical Specification Limits listed in Table 1A and 2A were determined using the methods described in Section E. This calculation was performed for each individual release during the quarter. The numbers reported in Table 1A and 2A are the largest of individual releases during the period for each category, not the yearly averaged as described in Section E. The values presented in the Semiannual Radioactive Effluent Release Report and their corresponding times are listed below:

Table 1A

A.3	1.05	E+0	Containment Purge	Unit 2	2	hrs.	01/10/83
	2.21	E+1	Containment Purge	Unit 2	18	hrs.	06/17/83
B.3	7.46	E-3	Containment Purge	Unit 2	6	hrs.	01/19/83
	1.81	E+1	Containment Purge	Unit 2	18	hrs.	06/17/83
C.3	2.42	E-1	Containment Purge	Unit 2	2	hrs.	01/10/83
	6.22	E-3	Waste Gas Decay Tank	Common	6	hrs.	05/01/83
D.3	8.45	E-4	Containment Purge	Unit 2	2	hrs.	01/10/83
	1.77	E-1	Containment Purge	Unit 2	12	hrs.	06/28/83

Table 2A

A.3	3.21	E-1	Misc. Liquid Radwaste Tank	Common	3.5	hrs.	03/06/83
	7.14	E-2	Misc. Liquid Radwaste Tank	Common	7	hrs.	05/01/83
B.3	1.51	E-2	Misc. Liquid Radwaste Tank	Common		Quarterly Average	
	2.11	E-1	Radwaste Secondary Tank	Common	13	hrs.	06/29/83
C.3	4.10	E+0	Misc. Liquid Radwaste Tank	Common	3.5	hrs.	01/23/83
	1.41	E+1	Misc. Liquid Radwaste Tank	Common	4	hrs.	05/24/83
D.3	3.35	E-1	Misc. Liquid Radwaste Tank	Common	10.5	hrs.	02/17/83
	7.30	E-1	Radwaste Secondary Tank	Common	10	mins.	05/22/83

From these values the highest percentage attained was selected for gaseous (22.1%) and for liquid (14.1%) releases and reported in Section K, Conclusions.

## Tables 1D and 2D

Percent Technical Specification values for radiation doses at the site boundary were derived by comparing assessed doses and dose limits listed in the Technical Specification. Pertinent Technical Specifications are 3.11.2.2, 3.11.2.3, 3.11.1.2 - all of which are based on 10 CFR 50 Appendix I values.

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ATTACHMENT B

EXPLANATION OF NUMERICAL CHANGES  
ON CORRECTED PAGES 3 AND 53

Page 3, Table 1A

- B.1 The total curies released for the Iodine Category was reduced since only the isotope I-131 is to be reported per Regulatory Guide 1.21. This change also reduced the Average Release Rate.
- C.1 The total curies release for the Particulate Category was reduced since only the isotopes with half-lives greater than 8 days are to be reported per Regulatory Guide 1.21. This change also reduced the average release rate.

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C.1	From: 6.40 E-5	To: 3.96 E-5
C.2	From: 8.14 E-6	To: 5.03 E-6
C.3	From: 8.02 E-1	To: 6.22 E-3
D.3	From: 8.94 E-4	To: 8.45 E-4

Page 53, Section K, Conclusion

#1	From: "(1.78 E-1 curies)"	To: "(7.54 E-1 curies)"
#3	From: "...poor 126%..."	To: "...poor 26%..."

TABLE 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT (1983)  
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	First Quarter	Second Quarter	
A. Fission and Activation Gases				
1. Total release	Ci	1.08 E+1	2.80 E+2	25% Estimated Total Error
2. Average release rate for period	μCi/sec	1.39E+0	3.56 E+1	
3. Percent of Technical Specification Limit	%	1.05 E+0	2.21 E+1	
B. Iodines				
1. Total Iodine 131	Ci	9.13 E-5	6.29 E-2	16% Estimated Total Error
2. Average release rate for period	μCi/sec	1.17 E-5	8.00 E-3	
3. Percent of Technical Specification Limit	%	7.46 E-3	1.81 E+1	
C. Particulates				
1. Particulates with half-lives > 8 days	Ci	4.90 E-7	3.96 E-5	19% Estimated Total Error
2. Average release rate for period	μCi/sec	6.30 E-8	5.03 E-6	
3. Percent of Technical Specification Limit	%	2.42 E-1	6.22 E-3	
4. Gross alpha radioactivity	Ci	9.20 E-12	**	
D. Tritium				
1. Total release	Ci	8.68 E-3	7.45 E-1	25% Estimated Total Error
2. Average release rate for period	μCi/sec	1.12 E-3	9.48 E-2	
3. Percent of Technical Specification Limit	%	8.45 E-4	1.77 E-1	

\*\*Incomplete data. Values reported are calculated using only first-quarter data.  
The following Semiannual Report will include second-quarter analysis.

1. Radioactive releases totaled  $2.92 \text{ E}+2$  curies for gaseous effluent releases and  $3.12 \text{ E}+1$  curies for liquid releases. Gaseous releases were primarily noble gas ( $2.91 \text{ E}+2$  curies total; composed primarily of  $2.84 \text{ E}+2$  curies of Xe-133) and tritium ( $7.54 \text{ E}-1$  curies).

Liquid effluents were primarily tritium ( $2.91 \text{ E}+1$  curies) and particulates ( $1.05 \text{ E}+0$  curies, composed primarily of  $4.35 \text{ E}-2$  curies of Mn-54,  $4.20 \text{ E}-2$  curies of Co-60 and  $2.96 \text{ E}-2$  curies of Zr-95).

The operation of SONGS 2/3 resulted in radioactive releases, the maximum of which were: 22.1% for gaseous effluents (Fission and Activation Gases), and 14.1% for liquid effluents (Iodines), of Technical Specification Limits.

2. Radwaste Shipments from SONGS 2/3 totaled 2 shipments to Richland, Washington. There were 60 cubic meters of solid radwaste shipped containing 0.5 curie of radioactivity.
3. Meteorological conditions during the semiannual period were typical of the meteorology at SONGS 2/3. Meteorological dispersion was good 32% of the time, fair 41% of the time and poor 26% of the time.
4. 40 CFR 190 compliance has been demonstrated as per Section H of this report.
5. For liquid releases, marine sample analysis will indicate if any of the particulate activity has concentrated in marine life. Detection of any tritium in these samples is not expected because of the rapid turnover of water in marine life and because of the bulk of ocean water available for dilution.
6. 50 mile radius considerations for both gaseous and liquid dose pathways have shown minimal impact to the general public.
7. The net result of these effluent release analyses indicate that the operation of SONGS 2/3 should not have produced any detrimental effect on the environment.

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Revision 1