

TABLE 5

DOSE AT THE SITE BOUNDARY AND TO THE NEAREST RESIDENT
FROM GASEOUS EFFLUENTS

1991

ORGAN	SITE BOUNDARY		NEAREST RESIDENT	
	DOSE	% LIMIT(a)	DOSE	% LIMIT(b)
Gamma Air Dose (mRad)*	4.21E-03	0.04	2.33E-03	N/A
Beta Air Dose (mRad)*	6.36E-03	0.03	3.52E-03	N/A
Whole Body (mRem)*	3.85E-03	N/A	2.13E-03	N/A
Skin (mRem)*	7.45E-03	N/A	4.13E-03	N/A
Bone (mRem)**	8.04E-07	N/A	3.46E-05	0.00
Liver (mRem)**	1.24E-03	N/A	5.93E-03	0.04
Total Body (mRem)**	1.24E-03	N/A	5.93E-03	0.04
Thyroid (mRem)**	1.24E-03	N/A	6.51E-03	0.04
Kidney (mRem)**	1.24E-03	N/A	5.93E-03	0.04
Lung (mRem)**	1.24E-03	N/A	5.92E-03	0.04
GI-LLI (mRem)**	1.24E-03	N/A	5.92E-03	0.04

* Dose from Noble Gases only

** Dose from Tritium, Radioiodines and Particulates only

(a) Annual dose limits of Offsite Dose Calculation Manual (APA-ZZ-01003) of 10 mRad gamma air dose and 20 mRad beta air dose.

(b) Annual dose limits of Offsite Dose Calculation Manual (APA-ZZ-01003) of 15 mRem to any organ from I-131, I-133, H-3 and particulate radio-nuclides with half-lives greater than 8 days.

TABLE 6

DOSE TO THE MEMBER OF THE PUBLIC FROM ACTIVITIES
WITHIN THE SITE BOUNDARY
1991

ORGAN	EFFLUENT DOSE WITHIN THE SITE BOUNDARY <u>(mRem)</u>	DIRECT RADIATION FROM THE UNIT <u>(mRem)</u>	DIRECT RADIATION FROM OUTSIDE TANKS <u>(mRem/1100hr)</u>	TOTAL DOSE FOR THE YEAR <u>(mRem)</u>
Skin	1.44E-03	N/A	N/A	1.44E-03
Bone	1.56E-07	9.00E-03	3.95E-04	9.39E-03
Liver	2.78E-04	9.00E-03	3.95E-04	9.67E-03
Total Body	1.02E-03	9.00E-03	3.95E-04	1.04E-02
Thyroid	2.78E-04	9.00E-03	3.95E-04	9.67E-03
Kidney	2.78E-04	9.00E-03	3.95E-04	9.67E-03
Lung	2.78E-04	9.00E-03	3.95E-04	9.67E-03
GI-LLI	2.78E-04	9.00E-03	3.95E-04	9.67E-03

TABLE 7

TOTAL DOSE DUE TO THE URANIUM FUEL CYCLE
(MEMBER OF THE PUBLIC)
1991

<u>ORGAN</u>	<u>DOSE AT THE RESIDENCE LOCATION (mRem)</u>	<u>DOSE FROM ACTIVITIES WITHIN THE SITE BOUNDARY (mRem)</u>	<u>TOTAL DOSE TO THE MEMBER OF THE PUBLIC (mRem)</u>	<u>% LIMIT 40CFR190*</u>
Skin	1.09E-03	1.44E-03	2.53E-03	0.01
Bone	4.14E-06	9.39E-03	9.40E-03	0.04
Liver	9.30E-04	9.67E-03	1.06E-02	0.04
Total Body	1.50E-03	1.04E-02	1.19E-02	0.05
Thyroid	9.84E-04	9.67E-03	1.07E-02	0.01
Kidney	9.30E-04	9.67E-03	1.06E-02	0.04
Lung	9.30E-04	9.67E-03	1.06E-02	0.04
GI-LLI	9.30E-04	9.67E-03	1.06E-02	0.04

* Annual dose limits from 40CFR190.10(a) of 25 mRem whole body, 75 mRem to the thyroid, and 25 mRem to any other organ.