

TABLE 5

DOSE AT THE SITE BOUNDARY AND TO THE NEAREST RESIDENT
FROM GASEOUS EFFLUENTS
1990

ORGAN	SITE BOUNDARY		NEAREST RESIDENT	
	DOSE	% LIMIT(a)	DOSE	% LIMIT(b)
Gamma Air Dose (mRad)*	1.27E-02	0.13	7.81E-03	N/A
Beta Air Dose (mRad)*	3.73E-02	0.19	2.29E-02	N/A
Whole Body (mRem)*	1.09E-02	N/A	6.71E-03	N/A
Skin (mRem)*	2.87E-02	N/A	1.76E-02	N/A
Bone (mRem)**	2.46E-07	N/A	4.31E-05	0.00
Liver (mRem)**	1.19E-03	N/A	6.47E-03	0.04
Total Body (mRem)**	1.19E-03	N/A	6.45E-03	0.04
Thyroid (mRem)**	1.25E-03	N/A	1.99E-02	0.13
Kidney (mRem)**	1.19E-03	N/A	6.49E-03	0.04
Lung (mRem)**	1.19E-03	N/A	6.43E-03	0.04
GI-LLI (mRem)**	1.19E-03	N/A	6.43E-03	0.04

* Dose from Noble Gases only

** Dose from Tritium, Radiiodines 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 radionuclides with half-lives greater than 8 days.

TABLE 6

DOSE TO THE MEMBER OF THE PUBLIC FROM ACTIVITIES
WITHIN THE SITE BOUNDARY
1990

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	5.68E-03	N/A	N/A	5.68E-03
Bone	3.17E-08	9.00E-03	1.04E-03	1.00E-02
Liver	2.80E-04	9.00E-03	1.04E-03	1.03E-02
Total Body	2.45E-03	9.00E-03	1.04E-03	1.25E-02
Thyroid	2.90E-04	9.00E-03	1.04E-03	1.03E-02
Kidney	2.80E-04	9.00E-03	1.04E-03	1.03E-02
Lung	2.80E-04	9.00E-03	1.04E-03	1.03E-02
GI-LLI	2.80E-04	9.00E-03	1.04E-03	1.03E-02

TABLE 7

TOTAL DOSE DUE TO THE URANIUM FUEL CYCLE
(MEMBER OF THE PUBLIC)
1990

<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	4.81E-03	5.68E-03	1.05E-02	0.04
Bone	2.69E-06	1.00E-02	1.00E-02	0.04
Liver	1.05E-03	1.03E-02	1.14E-02	0.05
Total Body	2.89E-03	1.25E-02	1.54E-02	0.06
Thyroid	2.17E-03	1.03E-02	1.25E-02	0.02
Kidney	1.05E-03	1.03E-02	1.14E-02	0.05
Lung	1.05E-03	1.03E-02	1.14E-02	0.05
GI-LLI	1.05E-03	1.03E-02	1.14E-02	0.05

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