APPENDIX A

Revisions to SSES ODCM

AE&WD Report 1999

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APRIL 2000

PROCEDURE COVER SHEET

SUSQUEHANNA STEAM ELECTRIC STATION PP&L	NUCLEAR DEPARTMENT PROCEDURE RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM	ODCM-QA-008 Revision 1 Page 1 of 74

QUALITY CLASSIFICATION: ☒ QA Program ☐ Non-QA Program	APPROVAL CLASSIFICATION: ☒ Plant ☐ Non-Plant ☐ Instruction

EFFECTIVE DATE: 10-13-99

PERIODIC REVIEW FREQUENCY: N/A

PERIODIC REVIEW DUE DATE: N/A

RECOMMENDED REVIEWS:

Procedure Owner: R. K. Barclay

Responsible Supervisor: Supervisor - Operations Technology

Responsible FUM: Manager - Nuclear Technology

Responsible Approver: General Manager - SSES

PROCEDURE REVISION SUMMARY

TITLE: RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

The former REMP milk monitoring location 12B3 has been deleted from Page 1 of 1 of Attachment B. The current REMP milk monitoring location 7C1 has been added to page 1 of 1 of Attachment B. Attachment B is the map of environmental monitoring locations greater than one mile from the SSES.

The description of the former milk monitoring location 12B3 has been replaced by the description of the current milk monitoring location 7C1 on page 3 of 3 of Attachment C.

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1.0 PURPOSE

The purpose of this procedure is to provide the methodology and parameters used to determine doses to the public resulting from inhalation, ingestion, and direct shine from radiologically contaminated environmental sampling media based on measured activity concentrations in those media. This procedure also describes the Radiological Environmental Monitoring Program (REMP), which includes the annual land use census survey and interlaboratory comparison program.

This procedure constitutes part of the SSES Offsite Dose Calculation Manual (ODCM), which is a licensing basis document.

2.0 POLICY/DISCUSSION

2.1 Monitoring Program

2.1.1 The results of the Radiological Environmental Monitoring Program are intended to supplement the results of the radiological effluent monitoring by verifying that the measurable concentrations of radioactive materials and levels of radiation are not higher than expected on the basis of the effluent measurements and modeling of the environmental exposure pathways. Thus, the specified environmental monitoring program provides measurements of radiation and of radioactive materials in those exposure pathways and for those radionuclides which lead to the highest potential radiation exposures of individuals resulting from station operation.

2.1.2 Environmental samples shall be collected and analyzed (as a minimum) according to Attachment C at locations shown in Attachments A and B in order to meet the requirements of TR Table 3.11.4.1-1. Comparisons to the Reporting Levels of TR Table 3.11.4.1-2 are conducted in accordance with procedure ST-099-003. Analytical techniques used shall ensure that the detection capabilities in TR Table 3.11.4.1-3 are achieved.

2.1.3 Sampling and analyses specified in Attachment C shall be performed with a maximum allowable extension not to exceed 25 percent of the specified interval. More restrictive tolerances may be imposed by implementing procedures.

2.1.4 Program changes may be proposed based on operational experience. Deviations are permitted from the required sampling schedule if specimens are unobtainable due to hazardous conditions, seasonal unavailability, malfunction of automatic sampling equipment, and other legitimate reasons. If specimens are unobtainable due to sampling equipment malfunction, an effort shall be made to complete corrective action prior to the end of the next sampling period. All program changes

and deviations from the sampling schedule shall be documented in the next Annual Radiological Environmental Operating Report.

2.1.5 An Annual Radiological Environmental Operating Report shall be prepared and submitted to the NRC prior to May 15 of each year in accordance with Technical Specification 5.6.2. The report shall include summaries, interpretations and analyses of trends of the results of the Radiological Environmental Monitoring Program (including any monitoring not conducted in accordance with TR Table 3.11.4.1-1) for the reporting period. A comparison, as appropriate, of sample analysis results with pre-operational studies, operational controls and results reported in previous reports shall be included. An assessment of environmental impacts of plant operation shall be made. The material provided shall be consistent with the objectives contained in the ODCM and 10CFR50, Appendix I, Sections IV.B.2, IV.B.3 and IV.C.

The Annual Radiological Environmental Operating Report shall include the results of analyses of all radiological environmental samples and of all environmental radiation measurements taken during the period at the locations specified in the ODCM as well as the summary and tabulation of results presented in the format of the table in the Radiological Assessment Branch Technical Position, Rev. 1, November 1979. The results of the Land Use Census and the Interlaboratory Comparison Program are included as well as corrective actions for analyses with results which are outside the control limits specified in the Interlaboratory Comparison Program. Detected radionuclides which are not the result of plant effluents must be included in the report.

At least two maps, including one near the Site Boundary, showing monitoring/sampling locations that are keyed to table(s) providing distances and directions from the plant centerline shall also be included.

In the event that some individual results are not available for inclusion with the report, the report shall note and explain the reasons for the missing results. The missing data shall be submitted in a supplementary report as soon as possible.

2.1.6 Special Reports shall be prepared and submitted to the NRC in accordance with the TROs of the specific sections of the Technical Requirements Manual.

2.2 Census Program

2.2.1 Broad leaf vegetation sampling of at least three different kinds of vegetation may be performed at the site boundary in each of two direction sectors with the highest predicted D/Q's in lieu of the garden census. Specifications for broad leaf vegetation sampling in TR

Table 3.11.4.1-1, Item 4C shall be followed, including analysis of control samples.

2.2.2 If a land use census identifies a location(s) with a higher average annual deposition rate (D/Q) than a current indicator location, the following shall apply:

a. If the D/Q is at least 20 percent greater than a previously high D/Q, the new location shall be added to the program within 30 days of documented identification of sampling feasibility. The indicator location having the lowest D/Q may be dropped from the program after October 31 of the year in which the land use census was conducted.

b. If the D/Q is not 20 percent greater than the previously highest D/Q, direction, distance, and D/Q will be considered in deciding whether to replace one of the existing sample locations. If applicable, replacement shall be within 30 days of documented decision making.

2.2.3 Any evaluations of possible location replacement should include the past history of the location, availability of sample, milk production history, and other applicable environmental conditions. New locations for dose calculations or environmental monitoring shall be reported in the Annual Effluent and Waste Disposal Report.

2.2.4 A land use census will be conducted at least once per calendar year by a door-to-door or aerial survey, by consulting local agricultural authorities, or by any combination of these methods.

2.3 Interlaboratory Comparison Program

2.3.1 The laboratories providing radioanalytical services for the station's Radiological Environmental Monitoring Program (REMP) shall participate in an Interlaboratory Comparison Program (ICP).

2.3.2 Analysis results which are obtained as part of an ICP that are not within acceptance limits established by the ICP shall be investigated by the laboratory responsible for the analysis. Corrective action appropriate for the findings of the investigation shall be taken. Investigation findings and corrective actions taken shall be described in the Annual Radiological Environmental Operating Report.

2.4 Dose Computations

2.4.1 When doses to members of the public are to be determined from REMP sample analysis results reported above LLD, doses should be added across sampling media for the same exposure pathways (airborne or

waterborne), if available, to maximize the result for a particular age group and organ.

3.0 REFERENCES

3.1 TR Table 3.11.4.1-1, Radiological Environmental Monitoring Program.

3.2 TR Table 3.11.4.1-2, Reporting Levels for Radioactivity Concentrations in Environmental Samples.

3.3 TR Table 3.11.4.1-3, Detection Capabilities for Environmental Sample Analysis

3.4 TS 5.6.2, Annual Radiological Environmental Operating Report.

3.5 10CFR50, Appendix I, Numerical Guides for Design Objectives and Limiting Conditions for Operation to Meet the Criterion "As Low as is Reasonably Achievable" for Radioactive Material in Light-Water-Cooled Nuclear Power Reactor Effluents.

3.6 40CFR141, National Primary Drinking Water Regulations.

3.7 Regulatory Guide 4.8, December 1975- Environmental Technical Specifications for Nuclear Power Plants.

3.8 Branch Technical Position to NRC Reg. Guide 4.8, Rev. 1, November 1979.

3.9 ORP/SID 72-2 Environmental Radioactivity Surveillance Guide

3.10 NEPM-QA-1014, Radiological Environmental Monitoring Program.

3.11 ST-099-003, Performance of REMP Quarterly Surveillance

3.12 PP&L Calculation EC-ENVR-1027, SSES REMP Dose Factor Calculations: C. R. 96-1310.

4.0 RESPONSIBILITIES

4.1 Supervisor- Operations Technology

4.1.1 Is responsible for appointing and supervising the Environmental Services- Health Physicist (REMP).

4.2 Environmental Services- Health Physicist (REMP)

4.2.1 Has the primary responsibility for developing the REMP and ensuring proper conduct of the REMP.

5.0 DEFINITIONS

5.1 LLD - Lower Limit of Detection, the smallest concentration of radioactive material in a sample that will yield a net count (above system background) that will be detected with 95 percent probability with only a 5 percent probability of falsely concluding that a blank observation represents a "real" signal.

5.2 REMP - Radiological Environmental Monitoring Program.

5.3 MEMBER(S) OF THE PUBLIC - Shall include all persons who are not occupationally associated with the plant. This category does not include employees of the utility, its contractors, or vendors. Also excluded from this category are persons who enter the site to service equipment or to make deliveries. This category does include persons who use portions of the site for recreational, occupational, or other purposes not associated with the plant.

6.0 PROCEDURE

6.1 Dose Computations

6.1.1 The Environmental Services Health Physicist shall determine annual doses to members of the public from ingestion of radioactive material for various pathways, age groups and organs according to the methodology developed in EC-ENVR-1027:

$$D_{REMP/ING} = DF_{CALC/ING} * RES_{REMP} * F_{SAMP} \qquad \text{(Eq. 1)}$$

where:

$D_{REMP/ING}$ = Annual dose from ingestion, as determined from REMP sample result (mrem/year).

$DF_{CALC/ING}$ = Dose rate factor for ingestion pathway; mrem-liter/pCi-yr for liquid samples; mrem-kg/pCi-yr for solid samples (Attachments D through G).

RES_{REMP} = REMP sample result: pCi/liter for water or milk samples; pCi/kg for vegetable, fruit, meat or fish samples.

F_{SAMP} = Correction factor for the fraction of year represented by the sampling period (for cases where only periodic or seasonal sampling is conducted).

6.1.2 The Environmental Services Health Physicist shall determine annual doses to members of the public from inhalation of radioactive material for

various pathways, age groups and organs according to the methodology developed in EC-ENVR-1027:

$$D_{REMP/INH} = DF_{CALC/INH} * RES_{REMP} * F_{SAMP} \quad \text{(Eq. 2)}$$

where:

$D_{REMP/INH}$ = Annual dose to organs or total body from inhalation, as determined from REMP sample result (mrem/yr).

$DF_{CALC/INH}$ = Dose rate factor for inhalation pathway (mrem-m^3/pCi-yr) (Attachments D through G).

RES_{REMP} = REMP sample result: pCi/m^3 for air samples corrected for absorption efficiency of filter media.

6.1.3 The Environmental Services Health Physicist shall determine annual doses to members of the public from exposure to contaminated sediment for total body and skin dose, for various age groups according to the methodology developed in EC-ENVR-1027:

$$D_{REMP/TB} = DF_{CALC/TB} * RES_{REMP} * F_{SAMP} \quad \text{(Eq. 3)}$$

$$D_{REMP/SKIN} = DF_{CALC/SKIN} * RES_{REMP} * F_{SAMP} \quad \text{(Eq. 4)}$$

where:

$D_{REMP/TB}$ = Annual total body dose, as determined from REMP sample result (mrem/yr).

$D_{REMP/SKIN}$ = Annual skin dose, as determined from REMP sample result (mrem/yr).

RES_{REMP} = REMP sample result: pCi/kg sediment.

$DF_{CALC/TB}$ = Total body dose rate factor from sediment (mrem-kg/pCi-yr) (Attachment H).

$DF_{CALC/SKIN}$ = Skin dose rate factor from sediment (mrem-kg/pCi-yr) (Attachment H).

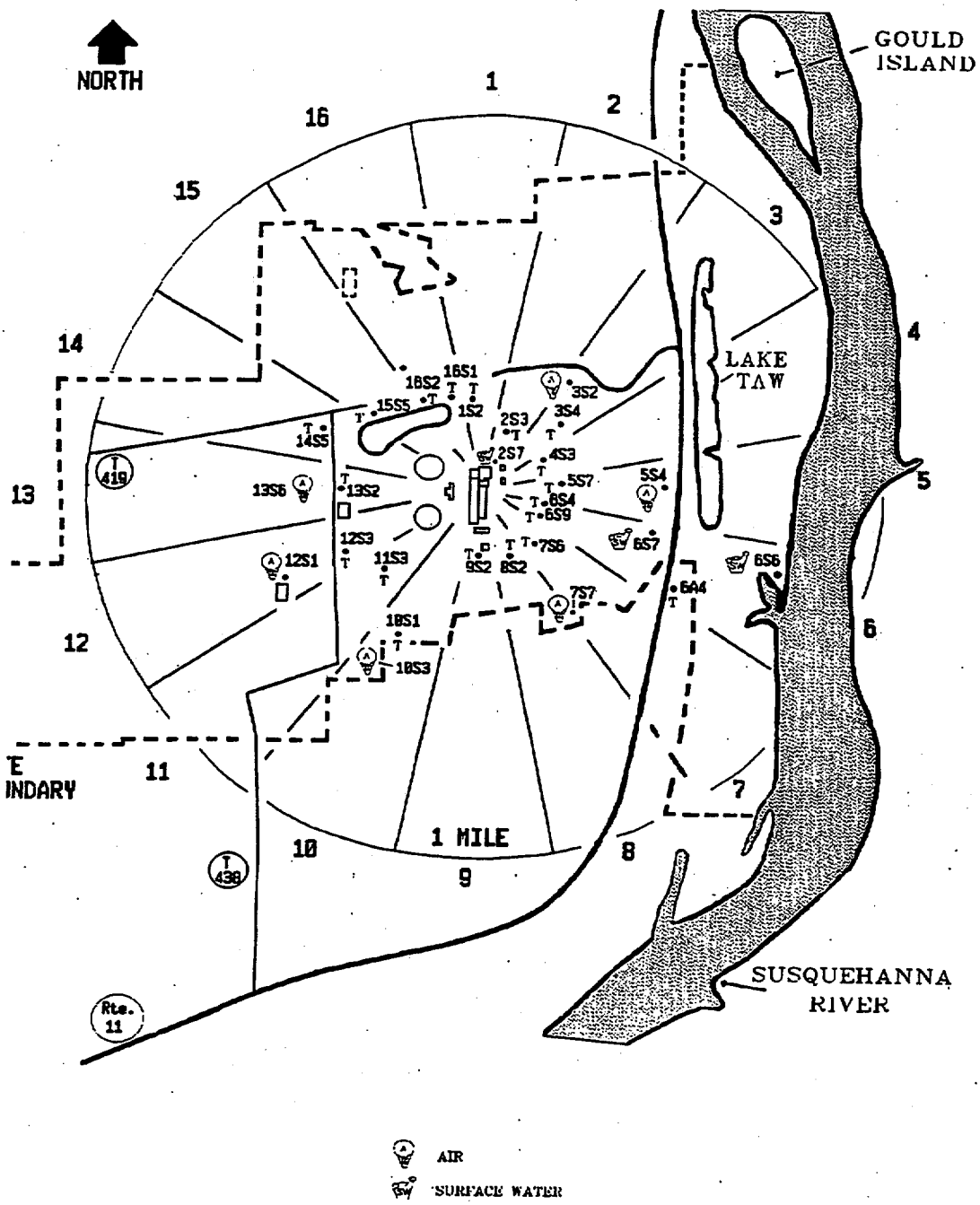
F_{SAMP} = Correction factor for the fraction of year represented by the sampling period (for cases where only periodic or seasonal sampling is conducted).

7.0 RECORDS

None.

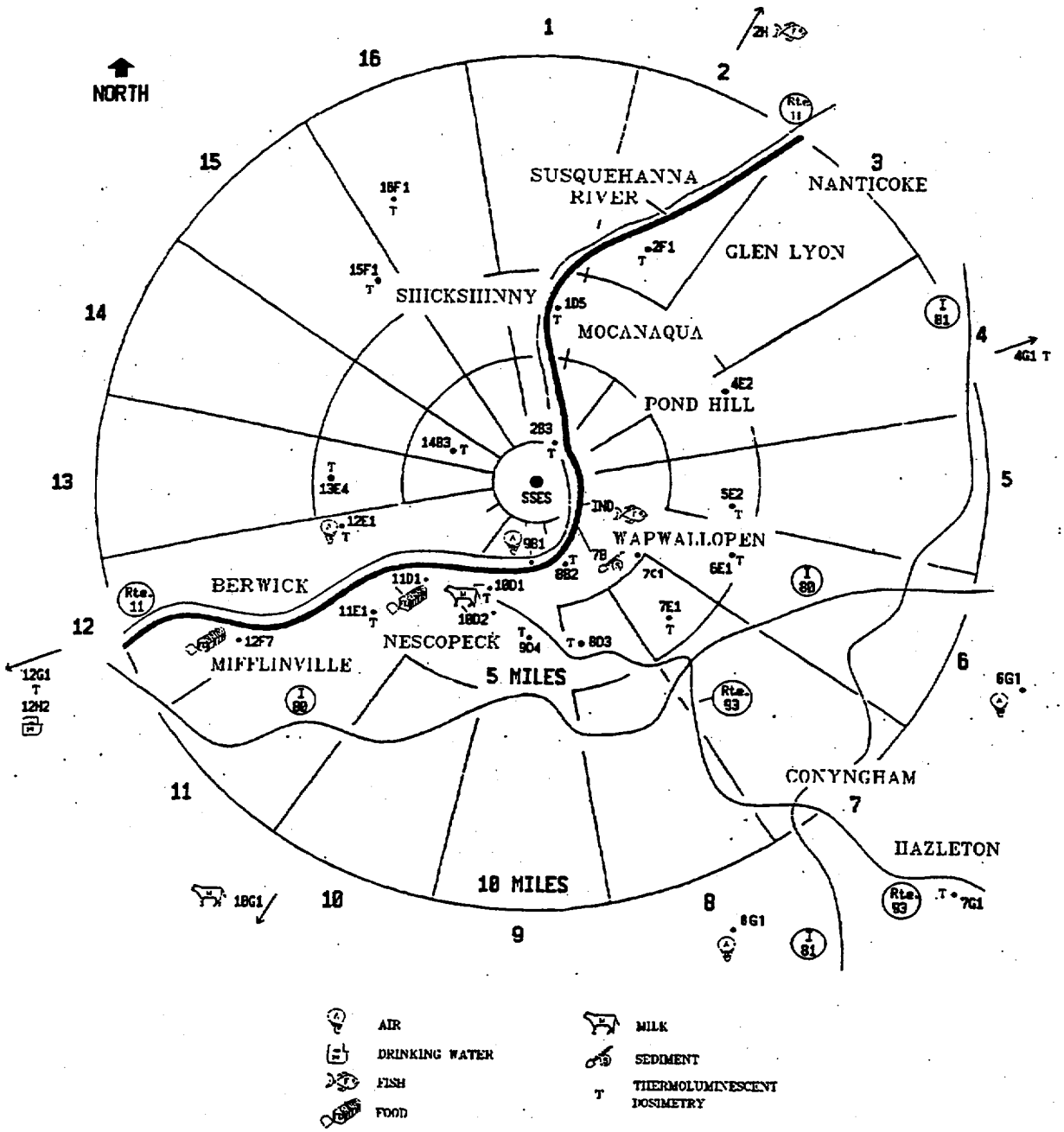
odcm-qa-008(26)

ENVIRONMENTAL MONITORING LOCATIONS WITHIN ONE MILE OF SSES



Approval	MWS
Date	see page 1

ENVIRONMENTAL MONITORING LOCATIONS
GREATER THAN ONE MILE FROM SSES



AIR
DRINKING WATER
FISH
FOOD
MILK
SEDIMENT
T THERMOLUMINESCENT DOSIMETRY

Approval	MWS
Date	see page 1

OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Exposure Pathways and/or Sample	Number of Samples and Locations*				Sampling and Collection Frequency	Type and Frequency of Analysis
Airborne						
Radioiodine and Particulates*	12S1	0.4 mi	WSW	West Building	Continual sampler operation with sample collection weekly.	Radioiodine Canister: analyze weekly for I-131.[a]
	9B1	1.3 mi	S	Transmission Line		
	5S4	0.8 mi	E	Environmental Laboratory		
	12E1	4.7 mi	WSW	Berwick Hospital		
	3S2	0.5 mi	NE	SSES Backup Met. Tower		Particulate Sample: Analyze for gross beta radioactivity following filter change. Perform isotopic analysis on composite sample (by location) quarterly.[b]
	7S7	0.4 mi	SE	End of Kline's Road		
	10S3	0.6 mi	SSW	East of Confer's Lane, South of Towers Club		
	13S6	0.4 mi	W	Former Laydown Area, West of Confer's Lane		
	6G1	13.5 mi	ESE	Freeland Substation[c]		
	8G1	12.2 mi.	SSE	PP&L System Facilities[c] Center, Humbolt Industrial Park		
Direct Radiation						
	1S2	0.2 mi	N	Perimeter Fence	Quarterly	Gamma Dose: Quarterly.
	1D5	4.0 mi	N	Mocanaqua Sewage Treatment Plant		
	2S3	0.2 mi	NNE	Perimeter Fence		
	2B3	1.3 mi	NNE	Durabond Corporation		
	2F1	5.9 mi	NNE	St. Adalberts Cemetery		
	3S4	0.3 mi	NE	Perimeter Fence		
	3E1	4.7 mi	NE	Webb Residence- Lilly Lake		
	4S3	0.2 mi	ENE	West of SSES APF		
	4E2	4.7 mi	ENE	Ruckles Hill & Pond Hill Roads Intersection		
	4G1	14 mi	ENE	Crestwood Industrial Park[c]		
	5S7	0.3 mi	E	Perimeter Fence		
	5E2	4.5 mi	E	Bloss Farm		
	6S4	0.2 mi	ESE	Perimeter Fence		
	6A4	0.6 mi	ESE	Restaurant		
	6E1	4.7 mi	ESE	St. James Church		

Approval	MWS
Date	see page 1

OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Exposure Pathways and/or Sample	Number of Samples and Locations*				Sampling and Collection Frequency	Type and Frequency of Analysis
	6S9	0.2 mi	ESE	Perimeter Fence	Quarterly	Gamma Dose: Quarterly.
	7S6	0.2 mi	SE	Perimeter Fence		
	7E1	4.2 mi	SE	Harwood Transmission Line Pole #2		
	7G1	14 mi	SE	PP&L Hazleton Complex[c]		
	8S2	0.2 mi	SSE	Perimeter Fence		
	8B2	1.4 mi	SSE	LaWall Residence		
	8D3	4.0 mi	SSE	Mowry Residence		
	9S2	0.2 mi	S	Security Fence		
	9D4	3.6 mi	S	Country Folk Store		
	10S1	0.4 mi	SSW	Post South of Switching Station		
	10D1	3.0 mi	SSW	Ross Ryman Farm		
	11S3	0.3 mi	SW	Security Fence		
	11E1	4.7 mi	SW	Thomas Residence		
	12S3	0.4 mi	WSW	Perimeter Fence		
	12E1	4.7 mi	WSW	Berwick Hospital		
	12G1	15 mi	WSW	PP&L Bloomsburg Service Center[c]		
	13S2	0.4 mi	W	Perimeter Fence		
	13E4	4.1 mi	W	Kessler Farm		
	14S5	0.5 mi	WNW	Beach Grove Rd. & Confer's Lane Intersection		
	14B3	1.3 mi	WNW	Moskaluk Residence		
	15F1	5.4 mi	NW	Zawatski Farm		
	15S5	0.4 mi	NW	Perimeter Fence		
	16S1	0.3 mi	NNW	Perimeter Fence		
	16S2	0.3 mi	NNW	Perimeter Fence		
	16F1	7.8	NNW	Hidlay Residence		
Waterborne						
Surface	2S7	Cooling Tower Blowdown discharge line (restricted area)[f]			Monthly composite	Gamma isotopic analysis. Composite tritium analysis at least quarterly.
	6S6	river water intake line[c]				
	6S7	Cooling Tower Blowdown discharge line (STP)[f]				
Drinking	12H2	Danville Water Company (Approximately 30 miles downstream)			Monthly composite[c]	Gross beta and gamma isotopic analyses monthly. Composite for tritium analysis at least quarterly.

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Approval	MWS
Date	see page 1

OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Exposure Pathways and/or Sample	Number of Samples and Locations*				Sampling and Collection Frequency	Type and Frequency of Analysis
Sediment from Shoreline	7B	1.2 mi	SE	Bell Bend	Semi-annually	Gamma isotopic analysis semi-annually.
Milk**	7C1	2.6 mi	SE	Zajac Farm	Semi-monthly when animals are on pasture, monthly otherwise	Gamma isotopic and I-131 analysis of each sample.
	10G1	14.0 mi.	SSW	Davis Farm[c]		
	10D2	3.5 mi.	SSW	Ray Ryman Farm		
	10D1	3.0 mi.	SSW	R&C Ryman Farm		
Fish and Invertebrates	2H	Outfall area Falls, Pa[c] (Approximately 30 mi NNE)			Semi-annually. One sample[e] from each of two recreationally important species from any of the following families: bullhead catfish, sunfish, pikes, or perches.	Gamma isotopic on edible portions.
Food Products	11D1	3.3 mi	SW	Zehner Farm (vegetable)	At time of harvest	Gamma isotopic on edible portions.
	12F7	8.3 mi	WSW	Lupini Farm (vegetable)		

* The location of samples and equipment were designed using the guidance in the Branch Technical Position to NRC Reg. Guide 4.8, Rev. 1, Nov. 1979, Reg. Guide 48.1975 and ORP/SID 72-2 Environmental Radioactivity Surveillance Guide. Therefore, the airborne sampler locations were based upon X/Q and/or D/Q.

** If a milk sample is unavailable for more than two sampling periods from one or more of the locations, a vegetation sample shall be substituted until a suitable milk location is evaluated. Such an occurrence will be documented in the REMP annual report.

[a] The charcoal sampler cartridges used in the airborne radioiodine sampling program are designed and tested by the manufacturer to assure a high quality of radioiodine capture. A certificate from the manufacturer is supplied and retained with each batch of cartridges certifying the percent reduction of radioiodine versus air flow rate through the cartridge.

[b] Gross beta activity calculations will be performed in accordance with the procedures of the designated REMP analysis laboratory.

[c] Control sample location.

[d] Two-week composite if calculated doses due to consumption of water exceed one millirem per year. In these cases, I-131 analyses will be performed.

[e] The sample collector will determine the species based upon availability, which may vary seasonally and yearly.

[f] A sample from either or both locations 2S7 and 6S7 will be collected and analyzed according to the required frequencies.

Approval	MWS
Date	see page 1

REMP DOSE FACTORS FOR ADULT AGE GROUP: MILK SAMPLE (Page 1 of 2)
mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	3.25E-05	3.25E-05	3.25E-05	3.25E-05	3.25E-05	3.25E-05
C-14	8.80E-04	1.76E-04	1.76E-04	1.76E-04	1.76E-04	1.76E-04	1.76E-04
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	5.43E-02	3.38E-03	2.10E-03	0.00E+00	0.00E+00	0.00E+00	6.11E-03
Cr-51	0.00E+00	0.00E+00	7.84E-07	4.69E-07	1.73E-07	1.04E-06	1.97E-04
Mn-54	0.00E+00	1.41E-03	2.69E-04	0.00E+00	4.20E-04	0.00E+00	4.32E-03
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	8.51E-04	5.88E-04	1.37E-04	0.00E+00	0.00E+00	3.28E-04	3.37E-04
Fe-59	1.30E-03	3.07E-03	1.18E-03	0.00E+00	0.00E+00	8.56E-04	1.02E-02
Co-58	0.00E+00	2.26E-04	5.08E-04	0.00E+00	0.00E+00	0.00E+00	4.59E-03
Co-60	0.00E+00	6.63E-04	1.46E-03	0.00E+00	0.00E+00	0.00E+00	1.25E-02
Ni-63	4.03E-02	2.79E-03	1.35E-03	0.00E+00	0.00E+00	0.00E+00	5.83E-04
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.49E-03	4.75E-03	2.15E-03	0.00E+00	3.17E-03	0.00E+00	2.99E-03
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	6.07E-03	2.83E-03	0.00E+00	0.00E+00	0.00E+00	1.20E-03
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	9.29E-02	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	1.49E-02
Sr-90	2.35E+00	0.00E+00	5.77E-01	0.00E+00	0.00E+00	0.00E+00	6.79E-02
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	4.27E-05	0.00E+00	1.14E-06	0.00E+00	0.00E+00	0.00E+00	2.35E-02
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	9.22E-06	2.96E-06	2.00E-06	0.00E+00	4.64E-06	0.00E+00	9.37E-03
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	1.85E-06	1.03E-06	5.54E-07	0.00E+00	1.02E-06	0.00E+00	6.26E-03
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR ADULT AGE GROUP: MILK SAMPLE (Page 2 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	5.54E-05	0.00E+00	2.39E-05	0.00E+00	2.11E-04	0.00E+00	6.46E-03
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	8.49E-04	0.00E+00	1.07E-04	0.00E+00	1.64E-03	0.00E+00	5.50E-02
Ag-110m	4.93E-05	4.56E-05	2.71E-05	0.00E+00	8.97E-05	0.00E+00	1.86E-02
Te-125m	8.11E-04	2.94E-04	1.09E-04	2.44E-04	3.30E-03	0.00E+00	3.24E-03
Te-127m	2.07E-03	7.41E-04	2.53E-04	5.30E-04	8.42E-03	0.00E+00	6.95E-03
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	3.42E-03	1.28E-03	5.41E-04	1.18E-03	1.43E-02	0.00E+00	1.72E-02
Te-129	9.34E-06	3.51E-06	2.28E-06	7.17E-06	3.93E-05	0.00E+00	7.05E-06
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	1.09E-03	1.55E-03	8.90E-04	5.09E-01	2.66E-03	0.00E+00	4.10E-04
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	1.92E-02	4.58E-02	3.74E-02	0.00E+00	1.48E-02	4.92E-03	8.01E-04
Cs-136	1.82E-03	7.17E-03	5.16E-03	0.00E+00	3.99E-03	5.47E-04	8.15E-04
Cs-137	2.47E-02	3.38E-02	2.21E-02	0.00E+00	1.15E-02	3.81E-03	6.54E-04
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	5.65E-03	7.09E-06	3.70E-04	0.00E+00	2.41E-06	4.06E-06	1.16E-02
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	2.78E-06	1.88E-06	2.13E-07	0.00E+00	8.73E-07	0.00E+00	7.19E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	1.51E-04	6.29E-05	8.08E-06	0.00E+00	3.73E-05	0.00E+00	5.09E-02
Pr-143	2.57E-06	1.03E-06	1.28E-07	0.00E+00	5.96E-07	0.00E+00	1.13E-02
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.72E-06	1.99E-06	1.19E-07	0.00E+00	1.16E-06	0.00E+00	9.54E-03
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR ADULT AGE GROUP: LEAFY VEG. SAMPLE (Page 1 of 2)
mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	6.72E-06	6.72E-06	6.72E-06	6.72E-06	6.72E-06	6.72E-06
C-14	1.82E-04	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	1.18E-02	7.32E-04	4.55E-04	0.00E+00	0.00E+00	0.00E+00	1.32E-03
Cr-51	0.00E+00	0.00E+00	1.66E-07	9.92E-08	3.66E-08	2.20E-07	4.18E-05
Mn-54	0.00E+00	2.92E-04	5.57E-05	0.00E+00	8.68E-05	0.00E+00	8.94E-04
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	1.76E-04	1.22E-04	2.83E-05	0.00E+00	0.00E+00	6.78E-05	6.97E-05
Fe-59	2.73E-04	6.43E-04	2.46E-04	0.00E+00	0.00E+00	1.80E-04	2.14E-03
Co-58	0.00E+00	4.72E-05	1.06E-04	0.00E+00	0.00E+00	0.00E+00	9.57E-04
Co-60	0.00E+00	1.37E-04	3.02E-04	0.00E+00	0.00E+00	0.00E+00	2.57E-03
Ni-63	8.32E-03	5.77E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	1.20E-04
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	3.09E-04	9.83E-04	4.44E-04	0.00E+00	6.57E-04	0.00E+00	6.19E-04
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.30E-03	6.06E-04	0.00E+00	0.00E+00	0.00E+00	2.57E-04
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	1.94E-02	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	3.12E-03
Sr-90	4.85E-01	0.00E+00	1.19E-01	0.00E+00	0.00E+00	0.00E+00	1.40E-02
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	8.92E-06	0.00E+00	2.38E-07	0.00E+00	0.00E+00	0.00E+00	4.91E-03
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.92E-06	6.17E-07	4.18E-07	0.00E+00	9.69E-07	0.00E+00	1.96E-03
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	3.90E-07	2.17E-07	1.17E-07	0.00E+00	2.15E-07	0.00E+00	1.32E-03
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR ADULT AGE GROUP: LEAFY VEG. SAMPLE (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	1.16E-05	0.00E+00	5.01E-06	0.00E+00	4.44E-05	0.00E+00	1.36E-03
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	1.76E-04	0.00E+00	2.22E-05	0.00E+00	3.39E-04	0.00E+00	1.14E-02
Ag-110m	1.02E-05	9.45E-06	5.61E-06	0.00E+00	1.86E-05	0.00E+00	3.85E-03
Te-125m	1.69E-04	6.14E-05	2.27E-05	5.10E-05	6.89E-04	0.00E+00	6.77E-04
Te-127m	4.31E-04	1.54E-04	5.25E-05	1.10E-04	1.75E-03	0.00E+00	1.44E-03
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	7.21E-04	2.69E-04	1.14E-04	2.48E-04	3.01E-03	0.00E+00	3.63E-03
Te-129	1.97E-06	7.40E-07	4.80E-07	1.51E-06	8.28E-06	0.00E+00	1.49E-06
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	2.44E-04	3.49E-04	2.00E-04	1.14E-01	5.99E-04	0.00E+00	9.22E-05
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	3.98E-03	9.46E-03	7.74E-03	0.00E+00	3.06E-03	1.02E-03	1.66E-04
Cs-136	3.95E-04	1.56E-03	1.12E-03	0.00E+00	8.68E-04	1.19E-04	1.77E-04
Cs-137	5.10E-03	6.98E-03	4.57E-03	0.00E+00	2.37E-03	7.87E-04	1.35E-04
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	1.23E-03	1.55E-06	8.06E-05	0.00E+00	5.26E-07	8.85E-07	2.53E-03
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	5.86E-07	3.97E-07	4.50E-08	0.00E+00	1.84E-07	0.00E+00	1.52E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	3.12E-05	1.30E-05	1.67E-06	0.00E+00	7.73E-06	0.00E+00	1.05E-02
Pr-143	5.59E-07	2.24E-07	2.77E-08	0.00E+00	1.30E-07	0.00E+00	2.45E-03
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	3.78E-07	4.37E-07	2.61E-08	0.00E+00	2.55E-07	0.00E+00	2.10E-03
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Approval MWS
Date see page 1

REMP DOSE FACTORS FOR ADULT AGE GROUP: FRUIT SAMPLE (Page 1 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	5.41E-05	5.41E-05	5.41E-05	5.41E-05	5.41E-05	5.41E-05
C-14	1.48E-03	2.95E-04	2.95E-04	2.95E-04	2.95E-04	2.95E-04	2.95E-04
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	5.47E-03	3.40E-04	2.11E-04	0.00E+00	0.00E+00	0.00E+00	6.14E-04
Cr-51	0.00E+00	0.00E+00	3.08E-07	1.84E-07	6.79E-08	4.09E-07	7.75E-05
Mn-54	0.00E+00	2.08E-03	3.97E-04	0.00E+00	6.19E-04	0.00E+00	6.37E-03
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	1.37E-03	9.47E-04	2.21E-04	0.00E+00	0.00E+00	5.28E-04	5.43E-04
Fe-59	8.89E-04	2.09E-03	8.01E-04	0.00E+00	0.00E+00	5.84E-04	6.96E-03
Co-58	0.00E+00	2.15E-04	4.83E-04	0.00E+00	0.00E+00	0.00E+00	4.36E-03
Co-60	0.00E+00	1.09E-03	2.40E-03	0.00E+00	0.00E+00	0.00E+00	2.05E-02
Ni-63	6.75E-02	4.68E-03	2.26E-03	0.00E+00	0.00E+00	0.00E+00	9.76E-04
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	2.12E-03	6.75E-03	3.05E-03	0.00E+00	4.52E-03	0.00E+00	4.25E-03
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.18E-03	5.50E-04	0.00E+00	0.00E+00	0.00E+00	2.33E-04
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	7.03E-02	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	1.13E-02
Sr-90	3.93E+00	0.00E+00	9.63E-01	0.00E+00	0.00E+00	0.00E+00	1.13E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	3.60E-05	0.00E+00	9.63E-07	0.00E+00	0.00E+00	0.00E+00	1.98E-02
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	8.26E-06	2.65E-06	1.79E-06	0.00E+00	4.15E-06	0.00E+00	8.39E-03
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	9.88E-07	5.49E-07	2.95E-07	0.00E+00	5.43E-07	0.00E+00	3.33E-03
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR ADULT AGE GROUP: FRUIT SAMPLE (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	3.34E-05	0.00E+00	1.44E-05	0.00E+00	1.28E-04	0.00E+00	3.90E-03
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	1.28E-03	0.00E+00	1.62E-04	0.00E+00	2.47E-03	0.00E+00	8.27E-02
Ag-110m	7.04E-05	6.52E-05	3.87E-05	0.00E+00	1.28E-04	0.00E+00	2.66E-02
Te-125m	6.80E-04	2.46E-04	9.11E-05	2.05E-04	2.77E-03	0.00E+00	2.72E-03
Te-127m	2.40E-03	8.59E-04	2.93E-04	6.14E-04	9.76E-03	0.00E+00	8.06E-03
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	1.73E-03	6.47E-04	2.74E-04	5.96E-04	7.24E-03	0.00E+00	8.73E-03
Te-129	4.74E-06	1.78E-06	1.15E-06	3.63E-06	1.99E-05	0.00E+00	3.57E-06
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	1.23E-05	1.75E-05	1.01E-05	5.75E-03	3.01E-05	0.00E+00	4.63E-06
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	3.06E-02	7.28E-02	5.95E-02	0.00E+00	2.36E-02	7.82E-03	1.27E-03
Cs-136	1.44E-04	5.67E-04	4.08E-04	0.00E+00	3.15E-04	4.32E-05	6.44E-05
Cs-137	4.13E-02	5.65E-02	3.70E-02	0.00E+00	1.92E-02	6.37E-03	1.09E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	4.09E-04	5.13E-07	2.68E-05	0.00E+00	1.74E-07	2.94E-07	8.41E-04
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	1.35E-06	9.16E-07	1.04E-07	0.00E+00	4.25E-07	0.00E+00	3.50E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	2.19E-04	9.16E-05	1.18E-05	0.00E+00	5.44E-05	0.00E+00	7.41E-02
Pr-143	2.23E-07	8.93E-08	1.10E-08	0.00E+00	5.16E-08	0.00E+00	9.76E-04
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	7.41E-08	8.56E-08	5.12E-09	0.00E+00	5.01E-08	0.00E+00	4.11E-04
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR ADULT AGE GROUP: MEAT SAMPLE (Page 1 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.15E-05	1.15E-05	1.15E-05	1.15E-05	1.15E-05	1.15E-05
C-14	3.12E-04	6.25E-05	6.25E-05	6.25E-05	6.25E-05	6.25E-05	6.25E-05
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	8.05E-03	5.00E-04	3.11E-04	0.00E+00	0.00E+00	0.00E+00	9.05E-04
Cr-51	0.00E+00	0.00E+00	1.77E-07	1.06E-07	3.91E-08	2.35E-07	4.46E-05
Mn-54	0.00E+00	4.81E-04	9.18E-05	0.00E+00	1.43E-04	0.00E+00	1.47E-03
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	2.98E-04	2.06E-04	4.80E-05	0.00E+00	0.00E+00	1.15E-04	1.18E-04
Fe-59	3.50E-04	8.22E-04	3.15E-04	0.00E+00	0.00E+00	2.30E-04	2.74E-03
Co-58	0.00E+00	6.74E-05	1.51E-04	0.00E+00	0.00E+00	0.00E+00	1.37E-03
Co-60	0.00E+00	2.34E-04	5.15E-04	0.00E+00	0.00E+00	0.00E+00	4.39E-03
Ni-63	1.43E-02	9.91E-04	4.79E-04	0.00E+00	0.00E+00	0.00E+00	2.07E-04
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	5.03E-04	1.60E-03	7.23E-04	0.00E+00	1.07E-03	0.00E+00	1.01E-03
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.10E-03	5.14E-04	0.00E+00	0.00E+00	0.00E+00	2.18E-04
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	2.58E-02	0.00E+00	7.39E-04	0.00E+00	0.00E+00	0.00E+00	4.13E-03
Sr-90	8.33E-01	0.00E+00	2.04E-01	0.00E+00	0.00E+00	0.00E+00	2.41E-02
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	1.22E-05	0.00E+00	3.27E-07	0.00E+00	0.00E+00	0.00E+00	6.74E-03
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	2.69E-06	8.64E-07	5.85E-07	0.00E+00	1.36E-06	0.00E+00	2.74E-03
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	4.61E-07	2.56E-07	1.38E-07	0.00E+00	2.53E-07	0.00E+00	1.56E-03
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR ADULT AGE GROUP: MEAT SAMPLE (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	1.43E-05	0.00E+00	6.16E-06	0.00E+00	5.46E-05	0.00E+00	1.67E-03
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	2.91E-04	0.00E+00	3.69E-05	0.00E+00	5.63E-04	0.00E+00	1.89E-02
Ag-110m	1.67E-05	1.54E-05	9.15E-06	0.00E+00	3.03E-05	0.00E+00	6.29E-03
Te-125m	2.32E-04	8.41E-05	3.11E-05	6.98E-05	9.44E-04	0.00E+00	9.27E-04
Te-127m	6.56E-04	2.34E-04	7.99E-05	1.68E-04	2.66E-03	0.00E+00	2.20E-03
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	8.37E-04	3.12E-04	1.33E-04	2.88E-04	3.50E-03	0.00E+00	4.22E-03
Te-129	2.29E-06	8.59E-07	5.57E-07	1.75E-06	9.61E-06	0.00E+00	1.73E-06
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	8.16E-05	1.17E-04	6.69E-05	3.82E-02	2.00E-04	0.00E+00	3.08E-05
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.72E-03	1.60E-02	1.31E-02	0.00E+00	5.17E-03	1.72E-03	2.80E-04
Cs-136	2.50E-04	9.86E-04	7.10E-04	0.00E+00	5.49E-04	7.52E-05	1.12E-04
Cs-137	8.76E-03	1.20E-02	7.84E-03	0.00E+00	4.06E-03	1.35E-03	2.32E-04
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	7.55E-04	9.49E-07	4.95E-05	0.00E+00	3.23E-07	5.43E-07	1.56E-03
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	6.72E-07	4.55E-07	5.16E-08	0.00E+00	2.11E-07	0.00E+00	1.74E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	5.11E-05	2.14E-05	2.74E-06	0.00E+00	1.27E-05	0.00E+00	1.73E-02
Pr-143	3.64E-07	1.46E-07	1.80E-08	0.00E+00	8.43E-08	0.00E+00	1.59E-03
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.96E-07	2.26E-07	1.35E-08	0.00E+00	1.32E-07	0.00E+00	1.09E-03
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR ADULT AGE GROUP: FISH SAMPLE (Page 1 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	2.20E-06	2.20E-06	2.20E-06	2.20E-06	2.20E-06	2.20E-06
C-14	5.96E-05	1.19E-05	1.19E-05	1.19E-05	1.19E-05	1.19E-05	1.19E-05
Na-24	1.18E-05	1.18E-05	1.18E-05	1.18E-05	1.18E-05	1.18E-05	1.18E-05
P-32	3.86E-03	2.40E-04	1.49E-04	0.00E+00	0.00E+00	0.00E+00	4.34E-04
Cr-51	0.00E+00	0.00E+00	5.45E-08	3.26E-08	1.20E-08	7.23E-08	1.37E-05
Mn-54	0.00E+00	9.58E-05	1.83E-05	0.00E+00	2.85E-05	0.00E+00	2.93E-04
Mn-56	0.00E+00	3.81E-09	6.76E-10	0.00E+00	4.84E-09	0.00E+00	1.22E-07
Fe-55	5.77E-05	3.99E-05	9.30E-06	0.00E+00	0.00E+00	2.22E-05	2.29E-05
Fe-59	8.97E-05	2.11E-04	8.08E-05	0.00E+00	0.00E+00	5.89E-05	7.03E-04
Co-58	0.00E+00	1.55E-05	3.47E-05	0.00E+00	0.00E+00	0.00E+00	3.14E-04
Co-60	0.00E+00	4.49E-05	9.91E-05	0.00E+00	0.00E+00	0.00E+00	8.44E-04
Ni-63	2.73E-03	1.89E-04	9.16E-05	0.00E+00	0.00E+00	0.00E+00	3.95E-05
Ni-65	1.51E-08	1.96E-09	8.93E-10	0.00E+00	0.00E+00	0.00E+00	4.96E-08
Cu-64	0.00E+00	4.72E-07	2.22E-07	0.00E+00	1.19E-06	0.00E+00	4.02E-05
Zn-65	1.01E-04	3.22E-04	1.46E-04	0.00E+00	2.16E-04	0.00E+00	2.03E-04
Zn-69	3.58E-15	6.85E-15	4.76E-16	0.00E+00	4.45E-15	0.00E+00	1.03E-15
Br-83	0.00E+00	0.00E+00	8.01E-10	0.00E+00	0.00E+00	0.00E+00	1.15E-09
Br-84	0.00E+00	0.00E+00	2.72E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	4.27E-04	1.99E-04	0.00E+00	0.00E+00	0.00E+00	8.42E-05
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	6.38E-03	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	1.02E-03
Sr-90	1.59E-01	0.00E+00	3.91E-02	0.00E+00	0.00E+00	0.00E+00	4.60E-03
Sr-91	2.07E-05	0.00E+00	8.35E-07	0.00E+00	0.00E+00	0.00E+00	9.84E-05
Sr-92	9.74E-08	0.00E+00	4.21E-09	0.00E+00	0.00E+00	0.00E+00	1.93E-06
Y-90	1.56E-07	0.00E+00	4.18E-09	0.00E+00	0.00E+00	0.00E+00	1.65E-03
Y-91m	3.78E-18	0.00E+00	1.47E-19	0.00E+00	0.00E+00	0.00E+00	1.11E-17
Y-91	2.93E-06	0.00E+00	7.82E-08	0.00E+00	0.00E+00	0.00E+00	1.61E-03
Y-92	1.62E-10	0.00E+00	4.72E-12	0.00E+00	0.00E+00	0.00E+00	2.83E-06
Y-93	1.08E-08	0.00E+00	2.99E-10	0.00E+00	0.00E+00	0.00E+00	3.44E-04
Zr-95	6.32E-07	2.03E-07	1.37E-07	0.00E+00	3.18E-07	0.00E+00	6.42E-04
Zr-97	1.32E-08	2.66E-09	1.22E-09	0.00E+00	4.02E-09	0.00E+00	8.24E-04
Nb-95	1.28E-07	7.12E-08	3.83E-08	0.00E+00	7.04E-08	0.00E+00	4.32E-04
Mo-99	0.00E+00	7.04E-05	1.34E-05	0.00E+00	1.59E-04	0.00E+00	1.63E-04
Tc-99m	3.27E-10	9.25E-10	1.18E-08	0.00E+00	1.40E-08	4.53E-10	5.47E-07

Approval MWS

REMP DOSE FACTORS FOR ADULT AGE GROUP: FISH SAMPLE (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	3.82E-06	0.00E+00	1.64E-06	0.00E+00	1.46E-05	0.00E+00	4.46E-04
Ru-105	7.63E-09	0.00E+00	3.01E-09	0.00E+00	9.86E-08	0.00E+00	4.67E-06
Ru-106	5.76E-05	0.00E+00	7.29E-06	0.00E+00	1.11E-04	0.00E+00	3.73E-03
Ag-110m	3.35E-06	3.10E-06	1.84E-06	0.00E+00	6.09E-06	0.00E+00	1.26E-03
Te-125m	5.56E-05	2.01E-05	7.45E-06	1.67E-05	2.26E-04	0.00E+00	2.22E-04
Te-127m	1.41E-04	5.05E-05	1.72E-05	3.61E-05	5.74E-04	0.00E+00	4.74E-04
Te-127	3.90E-07	1.40E-07	8.44E-08	2.89E-07	1.59E-06	0.00E+00	3.08E-05
Te-129m	2.37E-04	8.83E-05	3.74E-05	8.13E-05	9.87E-04	0.00E+00	1.19E-03
Te-129	6.46E-07	2.43E-07	1.57E-07	4.96E-07	2.72E-06	0.00E+00	4.88E-07
Te-131m	2.09E-05	1.02E-05	8.50E-06	1.62E-05	1.03E-04	0.00E+00	1.01E-03
Te-131	2.05E-24	0.00E+00	0.00E+00	1.69E-24	8.98E-24	0.00E+00	0.00E+00
Te-132	4.28E-05	2.77E-05	2.60E-05	3.06E-05	2.67E-04	0.00E+00	1.31E-03
I-130	4.13E-06	1.22E-05	4.81E-06	1.03E-03	1.90E-05	0.00E+00	1.05E-05
I-131	8.01E-05	1.15E-04	6.57E-05	3.76E-02	1.97E-04	0.00E+00	3.02E-05
I-132	3.08E-09	8.24E-09	2.88E-09	2.88E-07	1.31E-08	0.00E+00	1.55E-09
I-133	1.34E-05	2.33E-05	7.11E-06	3.43E-03	4.07E-05	0.00E+00	2.10E-05
I-134	1.33E-14	3.61E-14	1.29E-14	6.25E-13	5.73E-14	0.00E+00	3.14E-17
I-135	7.51E-07	1.97E-06	7.26E-07	1.30E-04	3.15E-06	0.00E+00	2.22E-06
Cs-134	1.30E-03	3.11E-03	2.54E-03	0.00E+00	1.00E-03	3.34E-04	5.43E-05
Cs-136	1.30E-04	5.12E-04	3.69E-04	0.00E+00	2.85E-04	3.90E-05	5.82E-05
Cs-137	1.67E-03	2.29E-03	1.50E-03	0.00E+00	7.77E-04	2.58E-04	4.43E-05
Cs-138	4.25E-20	8.40E-20	4.16E-20	0.00E+00	6.17E-20	6.10E-21	0.00E+00
Ba-139	1.27E-11	9.03E-15	3.71E-13	0.00E+00	8.44E-15	5.12E-15	2.25E-11
Ba-140	4.04E-04	5.07E-07	2.65E-05	0.00E+00	1.72E-07	2.90E-07	8.31E-04
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	3.47E-08	1.75E-08	4.62E-09	0.00E+00	0.00E+00	0.00E+00	1.28E-03
La-142	7.85E-14	3.57E-14	8.89E-15	0.00E+00	0.00E+00	0.00E+00	2.61E-10
Ce-141	1.92E-07	1.30E-07	1.48E-08	0.00E+00	6.04E-08	0.00E+00	4.97E-04
Ce-143	2.09E-08	1.55E-05	1.71E-09	0.00E+00	6.81E-09	0.00E+00	5.78E-04
Ce-144	1.02E-05	4.27E-06	5.49E-07	0.00E+00	2.53E-06	0.00E+00	3.46E-03
Pr-143	1.84E-07	7.36E-08	9.10E-09	0.00E+00	4.25E-08	0.00E+00	8.04E-04
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.24E-07	1.43E-07	8.58E-09	0.00E+00	8.38E-08	0.00E+00	6.88E-04
W-187	1.08E-06	9.00E-07	3.14E-07	0.00E+00	0.00E+00	0.00E+00	2.95E-04
Np-239	1.86E-08	1.83E-09	1.01E-09	0.00E+00	5.71E-09	0.00E+00	3.75E-04

REMP DOSE FACTORS FOR ADULT AGE GROUP: DRINKING WATER (Page 1 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	7.66E-05	7.66E-05	7.66E-05	7.66E-05	7.66E-05	7.66E-05
C-14	2.07E-03	4.15E-04	4.15E-04	4.15E-04	4.15E-04	4.15E-04	4.15E-04
Na-24	7.13E-04	7.13E-04	7.13E-04	7.13E-04	7.13E-04	7.13E-04	7.13E-04
P-32	1.38E-01	8.55E-03	5.32E-03	0.00E+00	0.00E+00	0.00E+00	1.55E-02
Cr-51	0.00E+00	0.00E+00	1.92E-06	1.15E-06	4.22E-07	2.54E-06	4.82E-04
Mn-54	0.00E+00	3.33E-03	6.36E-04	0.00E+00	9.92E-04	0.00E+00	1.02E-02
Mn-56	0.00E+00	3.33E-06	5.92E-07	0.00E+00	4.23E-06	0.00E+00	1.06E-04
Fe-55	2.01E-03	1.39E-03	3.23E-04	0.00E+00	0.00E+00	7.74E-04	7.95E-04
Fe-59	3.14E-03	7.39E-03	2.83E-03	0.00E+00	0.00E+00	2.06E-03	2.46E-02
Co-58	0.00E+00	5.41E-04	1.21E-03	0.00E+00	0.00E+00	0.00E+00	1.10E-02
Co-60	0.00E+00	1.56E-03	3.44E-03	0.00E+00	0.00E+00	0.00E+00	2.93E-02
Ni-63	9.49E-02	6.58E-03	3.18E-03	0.00E+00	0.00E+00	0.00E+00	1.37E-03
Ni-65	1.42E-05	1.85E-06	8.42E-07	0.00E+00	0.00E+00	0.00E+00	4.68E-05
Cu-64	0.00E+00	3.16E-05	1.48E-05	0.00E+00	7.96E-05	0.00E+00	2.69E-03
Zn-65	3.53E-03	1.12E-02	5.07E-03	0.00E+00	7.51E-03	0.00E+00	7.07E-03
Zn-69	9.68E-10	1.85E-09	1.29E-10	0.00E+00	1.20E-09	0.00E+00	2.78E-10
Br-83	0.00E+00	0.00E+00	9.04E-07	0.00E+00	0.00E+00	0.00E+00	1.30E-06
Br-84	0.00E+00	0.00E+00	6.00E-12	0.00E+00	0.00E+00	0.00E+00	4.71E-17
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.51E-02	7.04E-03	0.00E+00	0.00E+00	0.00E+00	2.98E-03
Rb-88	0.00E+00	3.11E-17	1.65E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	2.86E-19	2.01E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	2.23E-01	0.00E+00	6.41E-03	0.00E+00	0.00E+00	0.00E+00	3.58E-02
Sr-90	5.53E+00	0.00E+00	1.36E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-01
Sr-91	1.72E-03	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	8.21E-03
Sr-92	7.29E-05	0.00E+00	3.15E-06	0.00E+00	0.00E+00	0.00E+00	1.44E-03
Y-90	6.17E-06	0.00E+00	1.65E-07	0.00E+00	0.00E+00	0.00E+00	6.54E-02
Y-91m	2.95E-12	0.00E+00	1.14E-13	0.00E+00	0.00E+00	0.00E+00	8.68E-12
Y-91	1.02E-04	0.00E+00	2.74E-06	0.00E+00	0.00E+00	0.00E+00	5.63E-02
Y-92	5.88E-08	0.00E+00	1.72E-09	0.00E+00	0.00E+00	0.00E+00	1.03E-03
Y-93	8.59E-07	0.00E+00	2.37E-08	0.00E+00	0.00E+00	0.00E+00	2.72E-02
Zr-95	2.21E-05	7.08E-06	4.79E-06	0.00E+00	1.11E-05	0.00E+00	2.24E-02
Zr-97	7.50E-07	1.51E-07	6.92E-08	0.00E+00	2.28E-07	0.00E+00	4.69E-02
Nb-95	4.50E-06	2.50E-06	1.34E-06	0.00E+00	2.47E-06	0.00E+00	1.52E-02
Mo-99	0.00E+00	2.77E-03	5.28E-04	0.00E+00	6.28E-03	0.00E+00	6.43E-03
Tc-99m	4.53E-08	1.28E-07	1.63E-06	0.00E+00	1.94E-06	6.27E-08	7.57E-05

REMP DOSE FACTORS FOR ADULT AGE GROUP: DRINKING WATER (Page 2 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	1.08E-22	1.56E-22	1.53E-21	0.00E+00	2.81E-21	7.98E-23	0.00E+00
Ru-103	1.34E-04	0.00E+00	5.77E-05	0.00E+00	5.11E-04	0.00E+00	1.56E-02
Ru-105	1.73E-06	0.00E+00	6.82E-07	0.00E+00	2.23E-05	0.00E+00	1.06E-03
Ru-106	2.01E-03	0.00E+00	2.54E-04	0.00E+00	3.87E-03	0.00E+00	1.30E-01
Ag-110m	1.17E-04	1.08E-04	6.41E-05	0.00E+00	2.12E-04	0.00E+00	4.40E-02
Te-125m	1.94E-03	7.05E-04	2.61E-04	5.85E-04	7.91E-03	0.00E+00	7.76E-03
Te-127m	4.93E-03	1.76E-03	6.00E-04	1.26E-03	2.00E-02	0.00E+00	1.65E-02
Te-127	3.30E-05	1.18E-05	7.14E-06	2.44E-05	1.34E-04	0.00E+00	2.60E-03
Te-129m	8.31E-03	3.10E-03	1.31E-03	2.85E-03	3.47E-02	0.00E+00	4.18E-02
Te-129	2.27E-05	8.53E-06	5.53E-06	1.74E-05	9.54E-05	0.00E+00	1.71E-05
Te-131m	9.57E-04	4.68E-04	3.90E-04	7.41E-04	4.74E-03	0.00E+00	4.65E-02
Te-131	3.20E-14	1.34E-14	1.01E-14	2.63E-14	1.40E-13	0.00E+00	4.53E-15
Te-132	1.65E-03	1.07E-03	1.00E-03	1.18E-03	1.03E-02	0.00E+00	5.06E-02
I-130	2.82E-04	8.31E-04	3.28E-04	7.04E-02	1.30E-03	0.00E+00	7.15E-04
I-131	2.91E-03	4.16E-03	2.38E-03	1.36E+00	7.13E-03	0.00E+00	1.10E-03
I-132	3.98E-06	1.07E-05	3.73E-06	3.73E-04	1.70E-05	0.00E+00	2.00E-06
I-133	6.95E-04	1.21E-03	3.69E-04	1.78E-01	2.11E-03	0.00E+00	1.09E-03
I-134	5.97E-09	1.62E-08	5.81E-09	2.81E-07	2.58E-08	0.00E+00	1.41E-11
I-135	9.19E-05	2.41E-04	8.88E-05	1.59E-02	3.86E-04	0.00E+00	2.72E-04
Cs-134	4.54E-02	1.08E-01	8.83E-02	0.00E+00	3.50E-02	1.16E-02	1.89E-03
Cs-136	4.63E-03	1.83E-02	1.32E-02	0.00E+00	1.02E-02	1.39E-03	2.08E-03
Cs-137	5.82E-02	7.96E-02	5.21E-02	0.00E+00	2.70E-02	8.98E-03	1.54E-03
Cs-138	7.72E-12	1.52E-11	7.55E-12	0.00E+00	1.12E-11	1.11E-12	6.50E-17
Ba-139	1.77E-07	1.26E-10	5.17E-09	0.00E+00	1.18E-10	7.14E-11	3.13E-07
Ba-140	1.44E-02	1.81E-05	9.45E-04	0.00E+00	6.16E-06	1.04E-05	2.97E-02
Ba-141	4.97E-17	3.76E-20	1.68E-18	0.00E+00	3.50E-20	2.13E-20	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	1.48E-06	7.48E-07	1.98E-07	0.00E+00	0.00E+00	0.00E+00	5.49E-02
La-142	5.05E-10	2.30E-10	5.72E-11	0.00E+00	0.00E+00	0.00E+00	1.68E-06
Ce-141	6.76E-06	4.57E-06	5.19E-07	0.00E+00	2.12E-06	0.00E+00	1.75E-02
Ce-143	9.36E-07	6.92E-04	7.66E-08	0.00E+00	3.05E-07	0.00E+00	2.59E-02
Ce-144	3.56E-04	1.49E-04	1.91E-05	0.00E+00	8.82E-05	0.00E+00	1.20E-01
Pr-143	6.55E-06	2.63E-06	3.24E-07	0.00E+00	1.52E-06	0.00E+00	2.87E-02
Pr-144	6.67E-21	2.77E-21	3.39E-22	0.00E+00	1.56E-21	0.00E+00	0.00E+00
Nd-147	4.45E-06	5.14E-06	3.08E-07	0.00E+00	3.01E-06	0.00E+00	2.47E-02
W-187	5.30E-05	4.43E-05	1.55E-05	0.00E+00	0.00E+00	0.00E+00	1.45E-02
Np-239	7.50E-07	7.37E-08	4.06E-08	0.00E+00	2.30E-07	0.00E+00	1.51E-02

Approval MWS
Date see page 1

REMP DOSE FACTORS FOR ADULT AGE GROUP: INHALATION - QUARTERLY SAMPLING (Page 1 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.27E-03	1.27E-03	1.27E-03	1.27E-03	1.27E-03	1.27E-03
C-14	1.82E-02	3.41E-03	3.41E-03	3.41E-03	3.41E-03	3.41E-03	3.41E-03
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	1.21E+01	7.05E-01	4.58E-01	0.00E+00	0.00E+00	0.00E+00	7.90E-01
Cr-51	0.00E+00	0.00E+00	3.13E-04	1.86E-04	7.14E-05	4.51E-02	1.04E-02
Mn-54	0.00E+00	4.38E-02	6.97E-03	0.00E+00	1.09E-02	1.55E+00	8.56E-02
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	2.54E-02	1.75E-02	4.07E-03	0.00E+00	0.00E+00	7.44E-02	6.23E-03
Fe-59	2.39E-02	5.64E-02	2.14E-02	0.00E+00	0.00E+00	2.06E+00	3.82E-01
Co-58	0.00E+00	2.48E-03	3.24E-03	0.00E+00	0.00E+00	1.45E+00	1.66E-01
Co-60	0.00E+00	1.17E-02	1.50E-02	0.00E+00	0.00E+00	6.07E+00	2.90E-01
Ni-63	4.32E-01	3.15E-02	1.45E-02	0.00E+00	0.00E+00	1.79E-01	1.34E-02
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	3.69E-02	1.17E-01	5.30E-02	0.00E+00	7.85E-02	9.83E-01	6.08E-02
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	7.36E-01	3.21E-01	0.00E+00	0.00E+00	0.00E+00	9.06E-02
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	5.68E-01	0.00E+00	1.63E-02	0.00E+00	0.00E+00	2.62E+00	6.54E-01
Sr-90	9.95E+01	0.00E+00	6.11E+00	0.00E+00	0.00E+00	9.63E+00	7.24E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	7.94E-01	0.00E+00	2.13E-02	0.00E+00	0.00E+00	2.93E+00	6.61E-01
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.76E-01	5.64E-02	3.82E-02	0.00E+00	8.88E-02	2.90E+00	2.46E-01
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	3.47E-02	1.93E-02	1.04E-02	0.00E+00	1.91E-02	1.24E+00	2.56E-01
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR ADULT AGE GROUP: INHALATION - QUARTERLY SAMPLING (Page 2 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	3.41E-03	0.00E+00	1.47E-03	0.00E+00	1.30E-02	1.13E+00	2.47E-01
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	7.53E-02	0.00E+00	9.50E-03	0.00E+00	1.46E-01	1.02E+01	9.94E-01
Ag-110m	1.23E-02	1.13E-02	6.75E-03	0.00E+00	2.23E-02	5.26E+00	3.43E-01
Te-125m	5.89E-03	2.73E-03	8.06E-04	1.81E-03	2.14E-02	5.41E-01	1.22E-01
Te-127m	1.69E-02	7.71E-03	2.10E-03	4.39E-03	6.12E-02	1.28E+00	2.00E-01
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	2.50E-02	1.20E-02	4.06E-03	8.82E-03	9.37E-02	2.97E+00	9.82E-01
Te-129	1.28E-07	6.13E-08	3.18E-08	9.99E-08	4.80E-07	4.96E-03	4.02E-04
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	1.29E+00	1.83E+00	1.05E+00	6.09E+02	3.13E+00	0.00E+00	3.21E-01
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	3.89E-01	8.84E-01	7.59E-01	0.00E+00	3.00E-01	1.02E-01	1.08E-02
Cs-136	4.32E-01	1.62E+00	1.22E+00	0.00E+00	9.47E-01	1.33E-01	1.29E-01
Cs-137	4.80E-01	6.23E-01	4.29E-01	0.00E+00	2.23E-01	7.54E-02	8.42E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	4.63E-01	5.81E-04	3.04E-02	0.00E+00	1.98E-04	1.51E+01	2.59E+00
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	5.27E-02	3.58E-02	4.04E-03	0.00E+00	1.66E-02	9.57E-01	3.18E-01
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	3.84E+00	1.60E+00	2.06E-01	0.00E+00	9.48E-01	8.69E+00	9.12E-01
Pr-143	9.64E-02	3.86E-02	4.78E-03	0.00E+00	2.22E-02	2.89E+00	2.06E+00
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	9.39E-02	1.09E-01	6.50E-03	0.00E+00	6.34E-02	3.93E+00	3.08E+00
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03
C-14	1.82E-02	3.41E-03	3.41E-03	3.41E-03	3.41E-03	3.41E-03	3.41E-03
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	1.56E+00	9.14E-02	5.93E-02	0.00E+00	0.00E+00	0.00E+00	1.02E-01
Cr-51	0.00E+00	0.00E+00	1.09E-04	6.50E-05	2.49E-05	1.57E-02	3.62E-03
Mn-54	0.00E+00	3.99E-02	6.35E-03	0.00E+00	9.92E-03	1.41E+00	7.80E-02
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	2.46E-02	1.70E-02	3.95E-03	0.00E+00	0.00E+00	7.23E-02	6.05E-03
Fe-59	1.24E-02	2.93E-02	1.11E-02	0.00E+00	0.00E+00	1.07E+00	1.99E-01
Co-58	0.00E+00	1.64E-03	2.14E-03	0.00E+00	0.00E+00	9.60E-01	1.10E-01
Co-60	0.00E+00	1.15E-02	1.48E-02	0.00E+00	0.00E+00	5.98E+00	2.85E-01
Ni-63	4.32E-01	3.14E-02	1.45E-02	0.00E+00	0.00E+00	1.78E-01	1.34E-02
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	3.27E-02	1.04E-01	4.70E-02	0.00E+00	6.96E-02	8.73E-01	5.40E-02
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.54E-01	6.71E-02	0.00E+00	0.00E+00	0.00E+00	1.90E-02
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	3.19E-01	0.00E+00	9.15E-03	0.00E+00	0.00E+00	1.47E+00	3.67E-01
Sr-90	9.92E+01	0.00E+00	6.10E+00	0.00E+00	0.00E+00	9.60E+00	7.22E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	4.82E-01	0.00E+00	1.29E-02	0.00E+00	0.00E+00	1.78E+00	4.01E-01
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.11E-01	3.57E-02	2.42E-02	0.00E+00	5.63E-02	1.84E+00	1.56E-01
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	1.51E-02	8.38E-03	4.51E-03	0.00E+00	8.29E-03	5.41E-01	1.11E-01
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR ADULT AGE GROUP: INHALATION - WEEKLY SAMPLING (Page 2 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	1.63E-03	0.00E+00	7.00E-04	0.00E+00	6.20E-03	5.37E-01	1.17E-01
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	6.96E-02	0.00E+00	8.78E-03	0.00E+00	1.34E-01	9.42E+00	9.18E-01
Ag-110m	1.09E-02	1.01E-02	6.00E-03	0.00E+00	1.99E-02	4.68E+00	3.05E-01
Te-125m	3.56E-03	1.65E-03	4.87E-04	1.09E-03	1.29E-02	3.27E-01	7.37E-02
Te-127m	1.29E-02	5.90E-03	1.60E-03	3.36E-03	4.68E-02	9.82E-01	1.53E-01
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	1.05E-02	5.02E-03	1.70E-03	3.70E-03	3.93E-02	1.25E+00	4.12E-01
Te-129	5.35E-08	2.57E-08	1.33E-08	4.19E-08	2.01E-07	2.08E-03	1.69E-04
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	2.52E-02	3.58E-02	2.05E-02	1.19E+01	6.13E-02	0.00E+00	6.28E-03
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	3.74E-01	8.51E-01	7.30E-01	0.00E+00	2.88E-01	9.79E-02	1.04E-02
Cs-136	4.69E-02	1.76E-01	1.33E-01	0.00E+00	1.03E-01	1.44E-02	1.40E-02
Cs-137	4.79E-01	6.21E-01	4.28E-01	0.00E+00	2.22E-01	7.52E-02	8.40E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	4.72E-02	5.93E-05	3.10E-03	0.00E+00	2.02E-05	1.54E+00	2.64E-01
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	2.15E-02	1.46E-02	1.65E-03	0.00E+00	6.75E-03	3.90E-01	1.29E-01
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	3.46E+00	1.44E+00	1.86E-01	0.00E+00	8.55E-01	7.84E+00	8.23E-01
Pr-143	1.12E-02	4.49E-03	5.55E-04	0.00E+00	2.58E-03	3.36E-01	2.39E-01
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	6.58E-03	7.60E-03	4.55E-04	0.00E+00	4.44E-03	2.75E-01	2.16E-01
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR TEEN AGE GROUP: MILK (Page 1 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	4.24E-05	4.24E-05	4.24E-05	4.24E-05	4.24E-05	4.24E-05
C-14	1.62E-03	3.25E-04	3.25E-04	3.25E-04	3.25E-04	3.25E-04	3.25E-04
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	1.00E-01	6.21E-03	3.88E-03	0.00E+00	0.00E+00	0.00E+00	8.42E-03
Cr-51	0.00E+00	0.00E+00	1.37E-06	7.61E-07	3.00E-07	1.96E-06	2.30E-04
Mn-54	0.00E+00	2.35E-03	4.66E-04	0.00E+00	7.01E-04	0.00E+00	4.82E-03
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	1.51E-03	1.07E-03	2.50E-04	0.00E+00	0.00E+00	6.79E-04	4.63E-04
Fe-59	2.28E-03	5.31E-03	2.05E-03	0.00E+00	0.00E+00	1.68E-03	1.26E-02
Co-58	0.00E+00	3.81E-04	8.79E-04	0.00E+00	0.00E+00	0.00E+00	5.26E-03
Co-60	0.00E+00	1.12E-03	2.53E-03	0.00E+00	0.00E+00	0.00E+00	1.46E-02
Ni-63	7.08E-02	5.00E-03	2.40E-03	0.00E+00	0.00E+00	0.00E+00	7.96E-04
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	2.29E-03	7.95E-03	3.71E-03	0.00E+00	5.09E-03	0.00E+00	3.37E-03
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.11E-02	5.20E-03	0.00E+00	0.00E+00	0.00E+00	1.64E-03
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	1.71E-01	0.00E+00	4.90E-03	0.00E+00	0.00E+00	0.00E+00	2.04E-02
Sr-90	3.32E+00	0.00E+00	8.20E-01	0.00E+00	0.00E+00	0.00E+00	9.32E-02
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	7.85E-05	0.00E+00	2.11E-06	0.00E+00	0.00E+00	0.00E+00	3.22E-02
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.61E-05	5.09E-06	3.50E-06	0.00E+00	7.48E-06	0.00E+00	1.17E-02
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	3.16E-06	1.75E-06	9.65E-07	0.00E+00	1.70E-06	0.00E+00	7.50E-03
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Approval MWS

REMP DOSE FACTORS FOR TEEN AGE GROUP: MILK (Page 2 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	9.85E-05	0.00E+00	4.21E-05	0.00E+00	3.47E-04	0.00E+00	8.23E-03
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	1.56E-03	0.00E+00	1.97E-04	0.00E+00	3.01E-03	0.00E+00	7.49E-02
Ag-110m	8.15E-05	7.72E-05	4.69E-05	0.00E+00	1.47E-04	0.00E+00	2.17E-02
Te-125m	1.50E-03	5.39E-04	2.00E-04	4.18E-04	0.00E+00	0.00E+00	4.41E-03
Te-127m	3.82E-03	1.35E-03	4.54E-04	9.08E-04	1.55E-02	0.00E+00	9.52E-03
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	6.26E-03	2.32E-03	9.90E-04	2.02E-03	2.62E-02	0.00E+00	2.35E-02
Te-129	1.72E-05	6.41E-06	4.18E-06	1.23E-05	7.22E-05	0.00E+00	9.40E-05
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	1.97E-03	2.76E-03	1.48E-03	8.05E-01	4.75E-03	0.00E+00	5.45E-04
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	3.34E-02	7.87E-02	3.65E-02	0.00E+00	2.50E-02	9.54E-03	9.78E-04
Cs-136	3.09E-03	1.22E-02	8.17E-03	0.00E+00	6.62E-03	1.04E-03	9.79E-04
Cs-137	4.48E-02	5.96E-02	2.08E-02	0.00E+00	2.03E-02	7.88E-03	8.48E-04
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	1.02E-02	1.25E-06	6.57E-04	0.00E+00	4.24E-06	8.40E-06	1.57E-02
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	5.10E-06	3.40E-06	3.91E-07	0.00E+00	1.60E-06	0.00E+00	9.74E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	2.77E-04	1.15E-04	1.49E-05	0.00E+00	6.85E-05	0.00E+00	6.97E-02
Pr-143	4.73E-06	1.89E-06	2.35E-07	0.00E+00	1.10E-06	0.00E+00	1.56E-02
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	3.31E-06	3.60E-06	2.15E-07	0.00E+00	2.11E-06	0.00E+00	1.30E-02
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR TEEN AGE GROUP: LEAFY VEG. SAMPLES (Page 1 of 2)
mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	4.45E-06	4.45E-06	4.45E-06	4.45E-06	4.45E-06	4.45E-06
C-14	1.71E-04	3.41E-05	3.41E-05	3.41E-05	3.41E-05	3.41E-05	3.41E-05
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	1.10E-02	6.84E-04	4.28E-04	0.00E+00	0.00E+00	0.00E+00	9.28E-04
Cr-51	0.00E+00	0.00E+00	1.47E-07	8.19E-08	3.23E-08	2.11E-07	2.48E-05
Mn-54	0.00E+00	2.47E-04	4.90E-05	0.00E+00	7.38E-05	0.00E+00	5.07E-04
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	1.59E-04	1.12E-04	2.62E-05	0.00E+00	0.00E+00	7.13E-05	4.87E-05
Fe-59	2.43E-04	5.67E-04	2.19E-04	0.00E+00	0.00E+00	1.79E-04	1.34E-03
Co-58	0.00E+00	4.04E-05	9.32E-05	0.00E+00	0.00E+00	0.00E+00	5.57E-04
Co-60	0.00E+00	1.18E-04	2.66E-04	0.00E+00	0.00E+00	0.00E+00	1.54E-03
Ni-63	7.43E-03	5.25E-04	2.52E-04	0.00E+00	0.00E+00	0.00E+00	8.36E-05
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	2.41E-04	8.38E-04	3.91E-04	0.00E+00	5.36E-04	0.00E+00	3.55E-04
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.21E-03	5.67E-04	0.00E+00	0.00E+00	0.00E+00	1.78E-04
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	1.82E-02	0.00E+00	5.22E-04	0.00E+00	0.00E+00	0.00E+00	2.17E-03
Sr-90	3.49E-01	0.00E+00	8.61E-02	0.00E+00	0.00E+00	0.00E+00	9.79E-03
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	8.34E-06	0.00E+00	2.24E-07	0.00E+00	0.00E+00	0.00E+00	3.42E-03
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.71E-06	5.40E-07	3.71E-07	0.00E+00	7.94E-07	0.00E+00	1.25E-03
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	3.38E-07	1.88E-07	1.03E-07	0.00E+00	1.82E-07	0.00E+00	8.03E-04
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR TEEN AGE GROUP: LEAFY VEG. SAMPLES (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	1.05E-05	0.00E+00	4.50E-06	0.00E+00	3.71E-05	0.00E+00	8.79E-04
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	1.64E-04	0.00E+00	2.07E-05	0.00E+00	3.17E-04	0.00E+00	7.88E-03
Ag-110m	8.59E-06	8.13E-06	4.94E-06	0.00E+00	1.55E-05	0.00E+00	2.28E-03
Te-125m	1.59E-04	5.73E-05	2.12E-05	4.44E-05	0.00E+00	0.00E+00	4.69E-04
Te-127m	4.04E-04	1.43E-04	4.80E-05	9.60E-05	1.64E-03	0.00E+00	1.01E-03
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	6.71E-04	2.49E-04	1.06E-04	2.16E-04	2.81E-03	0.00E+00	2.52E-03
Te-129	1.84E-06	6.87E-07	4.48E-07	1.32E-06	7.73E-06	0.00E+00	1.01E-05
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	2.25E-04	3.16E-04	1.70E-04	9.21E-02	5.43E-04	0.00E+00	6.24E-05
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	3.51E-03	8.27E-03	3.84E-03	0.00E+00	2.63E-03	1.00E-03	1.03E-04
Cs-136	3.42E-04	1.35E-03	9.04E-04	0.00E+00	7.33E-04	1.16E-04	1.08E-04
Cs-137	4.70E-03	6.26E-03	2.18E-03	0.00E+00	2.13E-03	8.27E-04	8.90E-05
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	1.13E-03	1.38E-07	7.28E-05	0.00E+00	4.69E-07	9.31E-07	1.74E-03
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	5.47E-07	3.65E-07	4.19E-08	0.00E+00	1.72E-07	0.00E+00	1.04E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	2.92E-05	1.21E-05	1.57E-06	0.00E+00	7.21E-06	0.00E+00	7.33E-03
Pr-143	5.23E-07	2.09E-07	2.60E-08	0.00E+00	1.21E-07	0.00E+00	1.72E-03
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	3.70E-07	4.02E-07	2.41E-08	0.00E+00	2.36E-07	0.00E+00	1.45E-03
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR TEEN AGE GROUP: FRUIT SAMPLES (Page 1 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	6.62E-05	6.62E-05	6.62E-05	6.62E-05	6.62E-05	6.62E-05
C-14	2.56E-03	5.12E-04	5.12E-04	5.12E-04	5.12E-04	5.12E-04	5.12E-04
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	9.47E-03	5.87E-04	3.67E-04	0.00E+00	0.00E+00	0.00E+00	7.96E-04
Cr-51	0.00E+00	0.00E+00	5.05E-07	2.81E-07	1.11E-07	7.22E-07	8.49E-05
Mn-54	0.00E+00	3.25E-03	6.45E-04	0.00E+00	9.71E-04	0.00E+00	6.67E-03
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	2.28E-03	1.62E-03	3.77E-04	0.00E+00	0.00E+00	1.03E-03	7.01E-04
Fe-59	1.46E-03	3.40E-03	1.31E-03	0.00E+00	0.00E+00	1.07E-03	8.04E-03
Co-58	0.00E+00	3.40E-04	7.84E-04	0.00E+00	0.00E+00	0.00E+00	4.69E-03
Co-60	0.00E+00	1.73E-03	3.90E-03	0.00E+00	0.00E+00	0.00E+00	2.26E-02
Ni-63	1.11E-01	7.87E-03	3.78E-03	0.00E+00	0.00E+00	0.00E+00	1.25E-03
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	3.06E-03	1.06E-02	4.96E-03	0.00E+00	6.80E-03	0.00E+00	4.50E-03
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	2.02E-03	9.50E-04	0.00E+00	0.00E+00	0.00E+00	2.99E-04
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	1.22E-01	0.00E+00	3.49E-03	0.00E+00	0.00E+00	0.00E+00	1.45E-02
Sr-90	5.21E+00	0.00E+00	1.29E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	6.22E-05	0.00E+00	1.67E-06	0.00E+00	0.00E+00	0.00E+00	2.55E-02
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.36E-05	4.28E-06	2.94E-06	0.00E+00	6.28E-06	0.00E+00	9.87E-03
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	1.58E-06	8.77E-07	4.83E-07	0.00E+00	8.50E-07	0.00E+00	3.75E-03
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR TEEN AGE GROUP: FRUIT SAMPLES (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	5.58E-05	0.00E+00	2.39E-05	0.00E+00	1.97E-04	0.00E+00	4.66E-03
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	2.21E-03	0.00E+00	2.78E-04	0.00E+00	4.25E-03	0.00E+00	1.06E-01
Ag-110m	1.09E-04	1.03E-04	6.29E-05	0.00E+00	1.97E-04	0.00E+00	2.91E-02
Te-125m	1.18E-03	4.24E-04	1.57E-04	3.29E-04	0.00E+00	0.00E+00	3.48E-03
Te-127m	4.16E-03	1.48E-03	4.95E-04	9.89E-04	1.69E-02	0.00E+00	1.04E-02
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	2.98E-03	1.11E-03	4.71E-04	9.61E-04	1.25E-02	0.00E+00	1.12E-02
Te-129	8.19E-06	3.05E-06	1.99E-06	5.85E-06	3.44E-05	0.00E+00	4.48E-05
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	2.09E-05	2.93E-05	1.57E-05	8.54E-03	5.04E-05	0.00E+00	5.79E-06
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	4.99E-02	1.17E-01	5.45E-02	0.00E+00	3.73E-02	1.42E-02	1.46E-03
Cs-136	2.30E-04	9.03E-04	6.07E-04	0.00E+00	4.92E-04	7.75E-05	7.27E-05
Cs-137	7.03E-02	9.35E-02	3.26E-02	0.00E+00	3.18E-02	1.24E-02	1.33E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	6.92E-04	8.48E-08	4.46E-05	0.00E+00	2.88E-07	5.71E-07	1.07E-03
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	2.33E-06	1.56E-06	1.79E-07	0.00E+00	7.32E-07	0.00E+00	4.45E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	3.79E-04	1.57E-04	2.04E-05	0.00E+00	9.36E-05	0.00E+00	9.52E-02
Pr-143	3.84E-07	1.53E-07	1.91E-08	0.00E+00	8.92E-08	0.00E+00	1.26E-03
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.34E-07	1.46E-07	8.72E-09	0.00E+00	8.55E-08	0.00E+00	5.25E-04
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Approval MWS
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REMP DOSE FACTORS FOR TEEN AGE GROUP: MEAT SAMPLES (Page 1 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	6.87E-06	6.87E-06	6.87E-06	6.87E-06	6.87E-06	6.87E-06
C-14	2.64E-04	5.28E-05	5.28E-05	5.28E-05	5.28E-05	5.28E-05	5.28E-05
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	6.80E-03	4.21E-04	2.64E-04	0.00E+00	0.00E+00	0.00E+00	5.72E-04
Cr-51	0.00E+00	0.00E+00	1.42E-07	7.88E-08	3.11E-08	2.03E-07	2.38E-05
Mn-54	0.00E+00	3.67E-04	7.28E-05	0.00E+00	1.09E-04	0.00E+00	7.52E-04
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	2.42E-04	1.72E-04	4.01E-05	0.00E+00	0.00E+00	1.09E-04	7.43E-05
Fe-59	2.80E-04	6.53E-04	2.52E-04	0.00E+00	0.00E+00	2.06E-04	1.54E-03
Co-58	0.00E+00	5.19E-05	1.20E-04	0.00E+00	0.00E+00	0.00E+00	7.16E-04
Co-60	0.00E+00	1.81E-04	4.08E-04	0.00E+00	0.00E+00	0.00E+00	2.36E-03
Ni-63	1.15E-02	8.12E-04	3.90E-04	0.00E+00	0.00E+00	0.00E+00	1.29E-04
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	3.54E-04	1.23E-03	5.73E-04	0.00E+00	7.86E-04	0.00E+00	5.20E-04
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	9.21E-04	4.33E-04	0.00E+00	0.00E+00	0.00E+00	1.36E-04
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	2.17E-02	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	2.59E-03
Sr-90	5.39E-01	0.00E+00	1.33E-01	0.00E+00	0.00E+00	0.00E+00	1.51E-02
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	1.03E-05	0.00E+00	2.76E-07	0.00E+00	0.00E+00	0.00E+00	4.23E-03
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	2.16E-06	6.80E-07	4.68E-07	0.00E+00	1.00E-06	0.00E+00	1.57E-03
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	3.60E-07	2.00E-07	1.10E-07	0.00E+00	1.93E-07	0.00E+00	8.54E-04
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR TEEN AGE GROUP: MEAT SAMPLES (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	1.17E-05	0.00E+00	4.98E-06	0.00E+00	4.11E-05	0.00E+00	9.73E-04
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	2.45E-04	0.00E+00	3.09E-05	0.00E+00	4.73E-04	0.00E+00	1.18E-02
Ag-110m	1.26E-05	1.19E-05	7.26E-06	0.00E+00	2.28E-05	0.00E+00	3.35E-03
Te-125m	1.96E-04	7.06E-05	2.62E-05	5.48E-05	0.00E+00	0.00E+00	5.78E-04
Te-127m	5.53E-04	1.96E-04	6.58E-05	1.32E-04	2.24E-03	0.00E+00	1.38E-03
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	7.01E-04	2.60E-04	1.11E-04	2.26E-04	2.93E-03	0.00E+00	2.63E-03
Te-129	1.93E-06	7.19E-07	4.69E-07	1.38E-06	8.09E-06	0.00E+00	1.05E-05
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	6.78E-05	9.49E-05	5.10E-05	2.77E-02	1.63E-04	0.00E+00	1.88E-05
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	5.34E-03	1.26E-02	5.83E-03	0.00E+00	3.99E-03	1.53E-03	1.56E-04
Cs-136	1.95E-04	7.66E-04	5.15E-04	0.00E+00	4.17E-04	6.57E-05	6.17E-05
Cs-137	7.27E-03	9.67E-03	3.37E-03	0.00E+00	3.29E-03	1.28E-03	1.38E-04
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	6.24E-04	7.65E-08	4.02E-05	0.00E+00	2.59E-07	5.14E-07	9.63E-04
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	5.64E-07	3.77E-07	4.33E-08	0.00E+00	1.77E-07	0.00E+00	1.08E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	4.31E-05	1.78E-05	2.32E-06	0.00E+00	1.06E-05	0.00E+00	1.08E-02
Pr-143	3.06E-07	1.22E-07	1.52E-08	0.00E+00	7.11E-08	0.00E+00	1.01E-03
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.73E-07	1.88E-07	1.12E-08	0.00E+00	1.10E-07	0.00E+00	6.77E-04
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Approval MWS

REMP DOSE FACTORS FOR TEEN AGE GROUP: FISH SAMPLES (Page 1 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.70E-06	1.70E-06	1.70E-06	1.70E-06	1.70E-06	1.70E-06
C-14	6.50E-05	1.30E-05	1.30E-05	1.30E-05	1.30E-05	1.30E-05	1.30E-05
Na-24	1.21E-05	1.21E-05	1.21E-05	1.21E-05	1.21E-05	1.21E-05	1.21E-05
P-32	4.21E-03	2.61E-04	1.63E-04	0.00E+00	0.00E+00	0.00E+00	3.54E-04
Cr-51	0.00E+00	0.00E+00	5.62E-08	3.12E-08	1.23E-08	8.02E-08	9.44E-06
Mn-54	0.00E+00	9.42E-05	1.87E-05	0.00E+00	2.81E-05	0.00E+00	1.93E-04
Mn-56	0.00E+00	3.99E-09	7.09E-10	0.00E+00	5.05E-09	0.00E+00	2.63E-07
Fe-55	6.04E-05	4.28E-05	9.99E-06	0.00E+00	0.00E+00	2.72E-05	1.85E-05
Fe-59	9.25E-05	2.16E-04	8.33E-05	0.00E+00	0.00E+00	6.81E-05	5.10E-04
Co-58	0.00E+00	1.54E-05	3.55E-05	0.00E+00	0.00E+00	0.00E+00	2.12E-04
Co-60	0.00E+00	4.49E-05	1.01E-04	0.00E+00	0.00E+00	0.00E+00	5.85E-04
Ni-63	2.83E-03	2.00E-04	9.60E-05	0.00E+00	0.00E+00	0.00E+00	3.18E-05
Ni-65	1.63E-08	2.08E-09	9.48E-10	0.00E+00	0.00E+00	0.00E+00	1.13E-07
Cu-64	0.00E+00	4.97E-07	2.34E-07	0.00E+00	1.26E-06	0.00E+00	3.85E-05
Zn-65	9.19E-05	3.19E-04	1.49E-04	0.00E+00	2.04E-04	0.00E+00	1.35E-04
Zn-69	3.90E-15	7.42E-15	5.19E-16	0.00E+00	4.85E-15	0.00E+00	1.37E-14
Br-83	0.00E+00	0.00E+00	8.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	2.87E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	4.59E-04	2.16E-04	0.00E+00	0.00E+00	0.00E+00	6.80E-05
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	6.94E-03	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	8.27E-04
Sr-90	1.33E-01	0.00E+00	3.28E-02	0.00E+00	0.00E+00	0.00E+00	3.73E-03
Sr-91	2.24E-05	0.00E+00	8.92E-07	0.00E+00	0.00E+00	0.00E+00	1.02E-04
Sr-92	1.05E-07	0.00E+00	4.49E-09	0.00E+00	0.00E+00	0.00E+00	2.68E+04
Y-90	1.69E-07	0.00E+00	4.55E-09	0.00E+00	0.00E+00	0.00E+00	1.39E-03
Y-91m	4.09E-18	0.00E+00	1.56E-19	0.00E+00	0.00E+00	0.00E+00	1.93E-16
Y-91	3.18E-06	0.00E+00	8.52E-08	0.00E+00	0.00E+00	0.00E+00	1.30E-03
Y-92	1.76E-10	0.00E+00	5.10E-12	0.00E+00	0.00E+00	0.00E+00	4.83E-06
Y-93	1.18E-08	0.00E+00	3.24E-10	0.00E+00	0.00E+00	0.00E+00	3.61E-04
Zr-95	6.52E-07	2.06E-07	1.41E-07	0.00E+00	3.02E-07	0.00E+00	4.75E-04
Zr-97	1.42E-08	2.80E-09	1.29E-09	0.00E+00	4.25E-09	0.00E+00	7.59E-04
Nb-95	1.29E-07	7.15E-08	3.94E-08	0.00E+00	6.93E-08	0.00E+00	3.06E-04
Mo-99	0.00E+00	7.50E-05	1.43E-05	0.00E+00	1.72E-04	0.00E+00	1.34E-04
Tc-99m	3.35E-10	9.35E-10	1.21E-08	0.00E+00	1.39E-08	5.19E-10	6.14E-07

REMP DOSE FACTORS FOR TEEN AGE GROUP: FISH SAMPLES (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	4.01E-06	0.00E+00	1.71E-06	0.00E+00	1.41E-05	0.00E+00	3.35E-04
Ru-105	8.23E-09	0.00E+00	3.19E-09	0.00E+00	1.04E-07	0.00E+00	6.64E-06
Ru-106	6.26E-05	0.00E+00	7.89E-06	0.00E+00	1.21E-04	0.00E+00	3.00E-03
Ag-110m	3.27E-06	3.10E-06	1.88E-06	0.00E+00	5.90E-06	0.00E+00	8.70E-04
Te-125m	6.06E-05	2.18E-05	8.09E-06	1.69E-05	0.00E+00	0.00E+00	1.79E-04
Te-127m	1.54E-04	5.45E-05	1.83E-05	3.66E-05	6.23E-04	0.00E+00	3.83E-04
Te-127	4.27E-07	1.51E-07	9.18E-08	2.94E-07	1.73E-06	0.00E+00	3.29E-05
Te-129m	2.55E-04	9.48E-05	4.04E-05	8.24E-05	1.07E-03	0.00E+00	9.59E-04
Te-129	7.02E-07	2.62E-07	1.71E-07	5.02E-07	2.95E-06	0.00E+00	3.84E-06
Te-131m	2.24E-05	1.08E-05	8.97E-06	1.62E-05	1.12E-04	0.00E+00	8.63E-04
Te-131	2.21E-24	0.00E+00	0.00E+00	1.71E-24	9.68E-24	0.00E+00	0.00E+00
Te-132	4.51E-05	2.86E-05	2.69E-05	3.01E-05	2.74E-04	0.00E+00	9.05E-04
I-130	4.29E-06	1.24E-05	4.96E-06	1.01E-03	1.91E-05	0.00E+00	9.54E-06
I-131	8.59E-05	1.20E-04	6.46E-05	3.51E-02	2.07E-04	0.00E+00	2.38E-05
I-132	3.23E-09	8.44E-09	3.03E-09	2.84E-07	1.33E-08	0.00E+00	3.68E-09
I-133	1.45E-05	2.45E-05	7.48E-06	3.42E-03	4.30E-05	0.00E+00	1.86E-05
I-134	1.39E-14	3.69E-14	1.33E-14	6.15E-13	5.82E-14	0.00E+00	4.86E-16
I-135	7.88E-07	2.03E-06	7.52E-07	1.30E-04	3.20E-06	0.00E+00	2.25E-06
Cs-134	1.34E-03	3.15E-03	1.46E-03	0.00E+00	1.00E-03	3.82E-04	3.92E-05
Cs-136	1.30E-04	5.13E-04	3.45E-04	0.00E+00	2.79E-04	4.40E-05	4.13E-05
Cs-137	1.79E-03	2.38E-03	8.30E-04	0.00E+00	8.11E-04	3.15E-04	3.39E-05
Cs-138	4.56E-20	8.75E-20	4.37E-20	0.00E+00	6.46E-20	7.52E-21	3.97E-23
Ba-139	1.38E-11	9.74E-15	4.03E-13	0.00E+00	9.18E-15	6.71E-15	1.23E-10
Ba-140	4.30E-04	5.27E-08	2.77E-05	0.00E+00	1.79E-07	3.55E-07	6.64E-04
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	3.68E-08	1.81E-08	4.81E-09	0.00E+00	0.00E+00	0.00E+00	1.04E-03
La-142	8.36E-14	3.71E-14	9.25E-15	0.00E+00	0.00E+00	0.00E+00	1.13E-09
Ce-141	2.08E-07	1.39E-07	1.60E-08	0.00E+00	6.55E-08	0.00E+00	3.98E-04
Ce-143	2.27E-08	1.65E-05	1.85E-09	0.00E+00	7.41E-09	0.00E+00	4.97E-04
Ce-144	1.11E-05	4.60E-06	5.97E-07	0.00E+00	2.75E-06	0.00E+00	2.79E-03
Pr-143	1.99E-07	7.95E-08	9.91E-09	0.00E+00	4.62E-08	0.00E+00	6.55E-04
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.41E-07	1.53E-07	9.18E-09	0.00E+00	9.00E-08	0.00E+00	5.53E-04
W-187	1.16E-06	9.47E-07	3.32E-07	0.00E+00	0.00E+00	0.00E+00	2.56E-04
Np-239	2.10E-08	1.98E-09	1.10E-09	0.00E+00	6.21E-09	0.00E+00	3.18E-04

REMP DOSE FACTORS FOR TEEN AGE GROUP: DRINKING WATER (Page 1 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	5.41E-05	5.41E-05	5.41E-05	5.41E-05	5.41E-05	5.41E-05
C-14	2.07E-03	4.14E-04	4.14E-04	4.14E-04	4.14E-04	4.14E-04	4.14E-04
Na-24	6.74E-04	6.74E-04	6.74E-04	6.74E-04	6.74E-04	6.74E-04	6.74E-04
P-32	1.37E-01	8.51E-03	5.33E-03	0.00E+00	0.00E+00	0.00E+00	1.15E-02
Cr-51	0.00E+00	0.00E+00	1.81E-06	1.01E-06	3.97E-07	2.59E-06	3.05E-04
Mn-54	0.00E+00	3.01E-03	5.96E-04	0.00E+00	8.97E-04	0.00E+00	6.16E-03
Mn-56	0.00E+00	3.20E-06	5.69E-07	0.00E+00	4.05E-06	0.00E+00	2.11E-04
Fe-55	1.93E-03	1.37E-03	3.19E-04	0.00E+00	0.00E+00	8.67E-04	5.91E-04
Fe-59	2.97E-03	6.93E-03	2.68E-03	0.00E+00	0.00E+00	2.19E-03	1.64E-02
Co-58	0.00E+00	4.93E-04	1.14E-03	0.00E+00	0.00E+00	0.00E+00	6.80E-03
Co-60	0.00E+00	1.43E-03	3.23E-03	0.00E+00	0.00E+00	0.00E+00	1.87E-02
Ni-63	9.03E-02	6.37E-03	3.06E-03	0.00E+00	0.00E+00	0.00E+00	1.01E-03
Ni-65	1.41E-05	1.80E-06	8.20E-07	0.00E+00	0.00E+00	0.00E+00	9.76E-05
Cu-64	0.00E+00	3.05E-05	1.43E-05	0.00E+00	7.71E-05	0.00E+00	2.36E-03
Zn-65	2.93E-03	1.02E-02	4.75E-03	0.00E+00	6.52E-03	0.00E+00	4.31E-03
Zn-69	9.65E-10	1.84E-09	1.29E-10	0.00E+00	1.20E-09	0.00E+00	3.39E-09
Br-83	0.00E+00	0.00E+00	9.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	5.81E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.49E-02	7.01E-03	0.00E+00	0.00E+00	0.00E+00	2.21E-03
Rb-88	0.00E+00	3.06E-17	1.63E-17	0.00E+00	0.00E+00	0.00E+00	2.62E-24
Rb-89	0.00E+00	2.74E-19	1.94E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	2.23E-01	0.00E+00	6.38E-03	0.00E+00	0.00E+00	0.00E+00	2.65E-02
Sr-90	4.23E+00	0.00E+00	1.05E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01
Sr-91	1.71E-03	0.00E+00	6.82E-05	0.00E+00	0.00E+00	0.00E+00	7.78E-03
Sr-92	7.23E-05	0.00E+00	3.08E-06	0.00E+00	0.00E+00	0.00E+00	1.84E-03
Y-90	6.14E-06	0.00E+00	1.65E-07	0.00E+00	0.00E+00	0.00E+00	5.06E-02
Y-91m	2.93E-12	0.00E+00	1.12E-13	0.00E+00	0.00E+00	0.00E+00	1.38E-10
Y-91	1.02E-04	0.00E+00	2.73E-06	0.00E+00	0.00E+00	0.00E+00	4.18E-02
Y-92	5.89E-08	0.00E+00	1.70E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-03
Y-93	8.57E-07	0.00E+00	2.35E-08	0.00E+00	0.00E+00	0.00E+00	2.62E-02
Zr-95	2.09E-05	6.59E-06	4.53E-06	0.00E+00	9.69E-06	0.00E+00	1.52E-02
Zr-97	7.39E-07	1.46E-07	6.73E-08	0.00E+00	2.22E-07	0.00E+00	3.96E-02
Nb-95	4.15E-06	2.30E-06	1.27E-06	0.00E+00	2.23E-06	0.00E+00	9.85E-03
Mo-99	0.00E+00	2.71E-03	5.17E-04	0.00E+00	6.20E-03	0.00E+00	4.86E-03
Tc-99m	4.25E-08	1.19E-07	1.54E-06	0.00E+00	1.77E-06	6.58E-08	7.79E-05

REMP DOSE FACTORS FOR TEEN AGE GROUP: DRINKING WATER (Page 2 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	1.07E-22	1.53E-22	1.50E-21	0.00E+00	2.76E-21	9.30E-23	0.00E+00
Ru-103	1.29E-04	0.00E+00	5.51E-05	0.00E+00	4.54E-04	0.00E+00	1.08E-02
Ru-105	1.71E-06	0.00E+00	6.63E-07	0.00E+00	2.15E-05	0.00E+00	1.38E-03
Ru-106	2.00E-03	0.00E+00	2.52E-04	0.00E+00	3.85E-03	0.00E+00	9.58E-02
Ag-110m	1.04E-04	9.88E-05	6.01E-05	0.00E+00	1.88E-04	0.00E+00	2.78E-02
Te-125m	1.94E-03	7.00E-04	2.60E-04	5.42E-04	0.00E+00	0.00E+00	5.73E-03
Te-127m	4.92E-03	1.74E-03	5.85E-04	1.17E-03	1.99E-02	0.00E+00	1.23E-02
Te-127	3.31E-05	1.17E-05	7.12E-06	2.28E-05	1.34E-04	0.00E+00	2.56E-03
Te-129m	8.23E-03	3.05E-03	1.30E-03	2.66E-03	3.44E-02	0.00E+00	3.09E-02
Te-129	2.26E-05	8.43E-06	5.50E-06	1.62E-05	9.49E-05	0.00E+00	1.24E-04
Te-131m	9.43E-04	4.52E-04	3.77E-04	6.80E-04	4.72E-03	0.00E+00	3.63E-02
Te-131	3.17E-14	1.31E-14	9.90E-15	2.44E-14	1.39E-13	0.00E+00	2.60E-15
Te-132	1.60E-03	1.01E-03	9.54E-04	1.07E-03	9.72E-03	0.00E+00	3.21E-02
I-130	2.68E-04	7.75E-04	3.10E-04	6.32E-02	1.19E-03	0.00E+00	5.96E-04
I-131	2.86E-03	4.00E-03	2.15E-03	1.17E+00	6.89E-03	0.00E+00	7.91E-04
I-132	3.82E-06	1.00E-05	3.59E-06	3.37E-04	1.58E-05	0.00E+00	4.36E-06
I-133	6.87E-04	1.17E-03	3.56E-04	1.63E-01	2.04E-03	0.00E+00	8.82E-04
I-134	5.75E-09	1.52E-08	5.47E-09	2.54E-07	2.40E-08	0.00E+00	2.01E-10
I-135	8.84E-05	2.27E-04	8.43E-05	1.46E-02	3.59E-04	0.00E+00	2.52E-04
Cs-134	4.27E-02	1.00E-01	4.66E-02	0.00E+00	3.19E-02	1.22E-02	1.25E-03
Cs-136	4.27E-03	1.68E-02	1.13E-02	0.00E+00	9.14E-03	1.44E-03	1.35E-03
Cs-137	5.71E-02	7.60E-02	2.65E-02	0.00E+00	2.59E-02	1.00E-02	1.08E-03
Cs-138	7.58E-12	1.46E-11	7.28E-12	0.00E+00	1.07E-11	1.25E-12	6.60E-15
Ba-139	1.77E-07	1.24E-10	5.15E-09	0.00E+00	1.17E-10	8.57E-11	1.58E-06
Ba-140	1.41E-02	1.73E-06	9.08E-04	0.00E+00	5.86E-06	1.16E-05	2.17E-02
Ba-141	4.95E-17	3.70E-20	1.65E-18	0.00E+00	3.43E-20	2.53E-20	1.06E-22
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	1.44E-06	7.09E-07	1.89E-07	0.00E+00	0.00E+00	0.00E+00	4.07E-02
La-142	4.93E-10	2.19E-10	5.46E-11	0.00E+00	0.00E+00	0.00E+00	6.67E-06
Ce-141	6.71E-06	4.48E-06	5.15E-07	0.00E+00	2.11E-06	0.00E+00	1.28E-02
Ce-143	9.31E-07	6.78E-04	7.57E-08	0.00E+00	3.04E-07	0.00E+00	2.04E-02
Ce-144	3.55E-04	1.47E-04	1.91E-05	0.00E+00	8.76E-05	0.00E+00	8.91E-02
Pr-143	6.51E-06	2.60E-06	3.24E-07	0.00E+00	1.51E-06	0.00E+00	2.14E-02
Pr-144	6.66E-21	2.72E-21	3.37E-22	0.00E+00	1.56E-21	0.00E+00	7.34E-24
Nd-147	4.64E-06	5.04E-06	3.02E-07	0.00E+00	2.96E-06	0.00E+00	1.82E-02
W-187	5.25E-05	4.28E-05	1.50E-05	0.00E+00	0.00E+00	0.00E+00	1.16E-02
Np-239	7.75E-07	7.31E-08	4.06E-08	0.00E+00	2.29E-07	0.00E+00	1.18E-02

REMP DOSE FACTORS FOR TEEN AGE GROUP: INHALATION - QUARTERLY SAMPLING (Page 1 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.28E-03	1.28E-03	1.28E-03	1.28E-03	1.28E-03	1.28E-03
C-14	2.60E-02	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	1.73E+01	1.00E+00	6.55E-01	0.00E+00	0.00E+00	0.00E+00	8.49E-01
Cr-51	0.00E+00	0.00E+00	4.23E-04	2.35E-04	9.62E-05	6.56E-02	9.39E-03
Mn-54	0.00E+00	5.66E-02	9.29E-03	0.00E+00	1.41E-02	2.20E+00	7.39E-02
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	3.45E-02	2.46E-02	5.72E-03	0.00E+00	0.00E+00	1.28E-01	6.60E-03
Fe-59	3.23E-02	7.51E-02	2.91E-02	0.00E+00	0.00E+00	3.10E+00	3.62E-01
Co-58	0.00E+00	3.24E-03	4.34E-03	0.00E+00	0.00E+00	2.10E+00	1.49E-01
Co-60	0.00E+00	1.54E-02	2.02E-02	0.00E+00	0.00E+00	8.86E+00	2.63E-01
Ni-63	5.81E-01	4.35E-02	1.98E-02	0.00E+00	0.00E+00	3.07E-01	1.42E-02
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	4.39E-02	1.52E-01	7.10E-02	0.00E+00	9.83E-02	1.41E+00	5.31E-02
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.04E+00	4.57E-01	0.00E+00	0.00E+00	0.00E+00	9.63E-02
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	8.12E-01	0.00E+00	2.33E-02	0.00E+00	0.00E+00	4.52E+00	6.94E-01
Sr-90	1.08E+02	0.00E+00	6.70E+00	0.00E+00	0.00E+00	1.65E+01	7.67E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	1.13E+00	0.00E+00	3.04E-02	0.00E+00	0.00E+00	5.04E+00	7.02E-01
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	2.39E-01	7.51E-02	5.17E-02	0.00E+00	1.10E-01	4.41E+00	2.44E-01
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	4.57E-02	2.54E-02	1.40E-02	0.00E+00	2.46E-02	1.85E+00	2.39E-01
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR TEEN AGE GROUP: INHALATION - QUARTERLY SAMPLING (Page 2 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	4.70E-03	0.00E+00	2.00E-03	0.00E+00	1.66E-02	1.75E+00	2.43E-01
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	1.07E-01	0.00E+00	1.35E-02	0.00E+00	2.07E-01	1.75E+01	1.05E+00
Ag-110m	1.57E-02	1.49E-02	9.07E-03	0.00E+00	2.84E-02	7.66E+00	3.10E-01
Te-125m	8.42E-03	3.86E-03	1.15E-03	2.42E-03	0.00E+00	9.25E-01	1.29E-01
Te-127m	2.41E-02	1.09E-02	2.92E-03	5.86E-03	8.74E-02	2.21E+00	2.13E-01
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	3.57E-02	1.69E-02	5.76E-03	1.17E-02	1.33E-01	5.06E+00	1.04E+00
Te-129	1.82E-07	8.65E-08	4.51E-08	1.33E-07	6.81E-07	8.45E-03	4.14E-03
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	1.81E+00	2.51E+00	1.35E+00	7.48E+02	4.29E+00	0.00E+00	3.31E-01
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	5.24E-01	1.18E+00	5.72E-01	0.00E+00	3.91E-01	1.53E-01	1.02E-02
Cs-136	5.70E-01	2.14E+00	1.51E+00	0.00E+00	1.22E+00	1.96E-01	1.20E-01
Cs-137	6.72E-01	8.50E-01	3.12E-01	0.00E+00	3.05E-01	1.21E-01	8.50E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	6.49E-01	7.95E-04	4.17E-02	0.00E+00	2.70E-04	2.41E+01	2.71E+00
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	7.51E-02	5.02E-02	5.74E-03	0.00E+00	2.35E-02	1.62E+00	3.34E-01
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	5.46E+00	2.26E+00	2.93E-01	0.00E+00	1.35E+00	1.49E+01	9.66E-01
Pr-143	1.38E-01	5.47E-02	6.82E-03	0.00E+00	3.18E-02	4.98E+00	2.20E+00
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.40E-01	1.53E-01	9.14E-03	0.00E+00	8.95E-02	6.63E+00	3.25E+00
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR TEEN AGE GROUP: INHALATION - WEEKLY SAMPLING (Page 1 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.27E-03	1.27E-03	1.27E-03	1.27E-03	1.27E-03	1.27E-03
C-14	2.60E-02	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03	4.87E-03
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	2.24E+00	1.30E-01	8.48E-02	0.00E+00	0.00E+00	0.00E+00	1.10E-01
Cr-51	0.00E+00	0.00E+00	1.48E-04	8.18E-05	3.35E-05	2.29E-02	3.27E-03
Mn-54	0.00E+00	5.15E-02	8.47E-03	0.00E+00	1.28E-02	2.00E+00	6.73E-02
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	3.35E-02	2.39E-02	5.56E-03	0.00E+00	0.00E+00	1.24E-01	6.41E-03
Fe-59	1.68E-02	3.90E-02	1.51E-02	0.00E+00	0.00E+00	1.61E+00	1.88E-01
Co-58	0.00E+00	2.14E-03	2.87E-03	0.00E+00	0.00E+00	1.39E+00	9.85E-02
Co-60	0.00E+00	1.51E-02	1.99E-02	0.00E+00	0.00E+00	8.73E+00	2.60E-01
Ni-63	5.80E-01	4.34E-02	1.98E-02	0.00E+00	0.00E+00	3.07E-01	1.42E-02
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	3.89E-02	1.35E-01	6.30E-02	0.00E+00	8.73E-02	1.25E+00	4.71E-02
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	2.17E-01	9.57E-02	0.00E+00	0.00E+00	0.00E+00	2.01E-02
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	4.56E-01	0.00E+00	1.31E-02	0.00E+00	0.00E+00	2.53E+00	3.89E-01
Sr-90	1.08E+02	0.00E+00	6.68E+00	0.00E+00	0.00E+00	1.65E+01	7.65E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	6.89E-01	0.00E+00	1.84E-02	0.00E+00	0.00E+00	3.06E+00	4.26E-01
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.51E-01	4.76E-02	3.27E-02	0.00E+00	7.00E-02	2.79E+00	1.55E-01
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	1.99E-02	1.11E-02	6.07E-03	0.00E+00	1.07E-02	8.05E-01	1.04E-01
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR TEEN AGE GROUP:INHALATION - WEEKLY SAMPLING (Page 2 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	2.24E-03	0.00E+00	9.53E-04	0.00E+00	7.90E-03	8.33E-01	1.16E-01
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	9.91E-02	0.00E+00	1.25E-02	0.00E+00	1.92E-01	1.62E+01	9.66E-01
Ag-110m	1.40E-02	1.32E-02	8.07E-03	0.00E+00	2.53E-02	6.82E+00	2.75E-01
Te-125m	5.09E-03	2.34E-03	6.96E-04	1.46E-03	0.00E+00	5.59E-01	7.82E-02
Te-127m	1.84E-02	8.34E-03	2.23E-03	4.48E-03	6.68E-02	1.69E+00	1.63E-01
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	1.50E-02	7.08E-03	2.42E-03	4.92E-03	5.58E-02	2.12E+00	4.35E-01
Te-129	7.63E-08	3.63E-08	1.89E-08	5.57E-08	2.85E-07	3.54E-03	1.74E-03
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	3.54E-02	4.91E-02	2.64E-02	1.46E+01	8.40E-02	0.00E+00	6.49E-03
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	5.04E-01	1.13E+00	5.51E-01	0.00E+00	3.76E-01	1.47E-01	9.79E-03
Cs-136	6.19E-02	2.33E-01	1.64E-01	0.00E+00	1.33E-01	2.14E-02	1.31E-02
Cs-137	6.71E-01	8.48E-01	3.11E-01	0.00E+00	3.04E-01	1.21E-01	8.48E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	6.61E-02	8.10E-05	4.26E-03	0.00E+00	2.76E-05	2.46E+00	2.77E-01
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	3.06E-02	2.04E-02	2.34E-03	0.00E+00	9.57E-03	6.61E-01	1.36E-01
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	4.93E+00	2.04E+00	2.65E-01	0.00E+00	1.22E+00	1.35E+01	8.71E-01
Pr-143	1.60E-02	6.35E-03	7.92E-04	0.00E+00	3.69E-03	5.78E-01	2.55E-01
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	9.81E-03	1.07E-02	6.40E-04	0.00E+00	6.27E-03	4.64E-01	2.28E-01
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR CHILD AGE GROUP: MILK (Page 1 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	6.70E-05	6.70E-05	6.70E-05	6.70E-05	6.70E-05	6.70E-05
C-14	3.99E-03	7.99E-04	7.99E-04	7.99E-04	7.99E-04	7.99E-04	7.99E-04
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	2.47E-01	1.16E-02	9.52E-03	0.00E+00	0.00E+00	0.00E+00	6.83E-03
Cr-51	0.00E+00	0.00E+00	2.79E-06	1.55E-06	4.24E-07	2.83E-06	1.48E-04
Mn-54	0.00E+00	3.52E-03	9.36E-04	0.00E+00	9.86E-04	0.00E+00	2.95E-03
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	3.79E-03	2.01E-03	6.23E-04	0.00E+00	0.00E+00	1.14E-03	3.72E-04
Fe-59	5.28E-03	8.54E-03	4.25E-03	0.00E+00	0.00E+00	2.48E-03	8.89E-03
Co-58	0.00E+00	5.82E-04	1.78E-03	0.00E+00	0.00E+00	0.00E+00	3.40E-03
Co-60	0.00E+00	1.74E-03	5.14E-03	0.00E+00	0.00E+00	0.00E+00	9.66E-03
Ni-63	1.78E-01	9.50E-03	6.04E-03	0.00E+00	0.00E+00	0.00E+00	6.40E-04
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	4.50E-03	1.20E-02	7.45E-03	0.00E+00	7.55E-03	0.00E+00	2.10E-03
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	2.05E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	1.32E-03
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	4.24E-01	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	1.64E-02
Sr-90	5.61E+00	0.00E+00	1.42E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-02
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	1.94E-04	0.00E+00	5.19E-06	0.00E+00	0.00E+00	0.00E+00	2.58E-02
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	3.75E-05	8.23E-06	7.33E-06	0.00E+00	1.18E-05	0.00E+00	8.59E-03
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	7.14E-06	2.78E-06	1.99E-06	0.00E+00	2.61E-06	0.00E+00	5.14E-03
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR CHILD AGE GROUP: MILK (Page 2 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	2.33E-04	0.00E+00	8.95E-05	0.00E+00	5.86E-04	0.00E+00	6.02E-03
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	3.85E-03	0.00E+00	4.80E-04	0.00E+00	5.19E-03	0.00E+00	5.98E-02
Ag-110m	1.77E-04	1.19E-04	9.55E-05	0.00E+00	2.23E-04	0.00E+00	1.42E-02
Te-125m	3.67E-03	9.96E-04	4.90E-04	1.03E-03	0.00E+00	0.00E+00	3.54E-03
Te-127m	9.42E-03	2.53E-03	1.12E-03	2.25E-03	2.68E-02	0.00E+00	7.62E-03
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	1.54E-02	4.31E-03	2.39E-03	4.97E-03	4.53E-02	0.00E+00	1.88E-02
Te-129	4.24E-05	1.18E-05	1.01E-05	3.03E-05	1.24E-04	0.00E+00	2.64E-03
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	4.78E-03	4.80E-03	2.73E-03	1.59E+00	7.89E-03	0.00E+00	4.28E-04
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	7.71E-02	1.26E-01	2.67E-02	0.00E+00	3.92E-02	1.41E-02	6.82E-04
Cs-136	6.98E-03	1.92E-02	1.24E-02	0.00E+00	1.02E-02	1.52E-03	6.74E-04
Cs-137	1.08E-01	1.03E-01	1.52E-02	0.00E+00	3.37E-02	1.21E-02	6.47E-04
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	2.46E-02	2.16E-05	1.44E-03	0.00E+00	7.02E-06	1.29E-05	1.25E-02
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	1.26E-05	6.26E-06	9.30E-07	0.00E+00	2.74E-06	0.00E+00	7.81E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	6.83E-04	2.14E-04	3.65E-05	0.00E+00	1.19E-04	0.00E+00	5.58E-02
Pr-143	1.17E-05	3.52E-06	5.81E-07	0.00E+00	1.90E-06	0.00E+00	1.26E-02
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	8.11E-06	6.57E-06	5.09E-07	0.00E+00	3.61E-06	0.00E+00	1.04E-02
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR CHILD AGE GROUP: LEAFY VEG. (Page 1 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	5.28E-06	5.28E-06	5.28E-06	5.28E-06	5.28E-06	5.28E-06
C-14	3.15E-04	6.29E-05	6.29E-05	6.29E-05	6.29E-05	6.29E-05	6.29E-05
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	2.04E-02	9.56E-04	7.88E-04	0.00E+00	0.00E+00	0.00E+00	5.65E-04
Cr-51	0.00E+00	0.00E+00	2.26E-07	1.25E-07	3.42E-08	2.29E-07	1.20E-05
Mn-54	0.00E+00	2.78E-04	7.39E-05	0.00E+00	7.78E-05	0.00E+00	2.33E-04
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	2.99E-04	1.58E-04	4.91E-05	0.00E+00	0.00E+00	8.96E-05	2.94E-05
Fe-59	4.22E-04	6.84E-04	3.40E-04	0.00E+00	0.00E+00	1.98E-04	7.12E-04
Co-58	0.00E+00	4.63E-05	1.42E-04	0.00E+00	0.00E+00	0.00E+00	2.70E-04
Co-60	0.00E+00	1.37E-04	4.05E-04	0.00E+00	0.00E+00	0.00E+00	7.62E-04
Ni-63	1.40E-02	7.49E-04	4.76E-04	0.00E+00	0.00E+00	0.00E+00	5.04E-05
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	3.55E-04	9.46E-04	5.89E-04	0.00E+00	5.96E-04	0.00E+00	1.66E-04
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.68E-03	1.03E-03	0.00E+00	0.00E+00	0.00E+00	1.08E-04
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	3.39E-02	0.00E+00	9.67E-04	0.00E+00	0.00E+00	0.00E+00	1.31E-03
Sr-90	4.42E-01	0.00E+00	1.12E-01	0.00E+00	0.00E+00	0.00E+00	5.95E-03
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	1.55E-05	0.00E+00	4.14E-07	0.00E+00	0.00E+00	0.00E+00	2.06E-03
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	2.98E-06	6.56E-07	5.84E-07	0.00E+00	9.39E-07	0.00E+00	6.84E-04
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	5.74E-07	2.23E-07	1.60E-07	0.00E+00	2.10E-07	0.00E+00	4.13E-04
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR CHILD AGE GROUP: LEAFY VEG. (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	1.87E-05	0.00E+00	7.18E-06	0.00E+00	4.70E-05	0.00E+00	4.83E-04
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	3.04E-04	0.00E+00	3.79E-05	0.00E+00	4.10E-04	0.00E+00	4.72E-03
Ag-110m	1.40E-05	9.44E-06	7.55E-06	0.00E+00	1.76E-05	0.00E+00	1.12E-03
Te-125m	2.93E-04	7.94E-05	3.91E-05	8.22E-05	0.00E+00	0.00E+00	2.83E-04
Te-127m	7.47E-04	2.01E-04	8.86E-05	1.79E-04	2.13E-03	0.00E+00	6.05E-04
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	1.24E-03	3.46E-04	1.93E-04	4.00E-04	3.64E-03	0.00E+00	1.51E-03
Te-129	3.41E-06	9.53E-07	8.10E-07	2.43E-06	9.98E-06	0.00E+00	2.12E-04
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	4.10E-04	4.13E-04	2.34E-04	1.36E-01	6.77E-04	0.00E+00	3.67E-05
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.08E-03	9.97E-03	2.10E-03	0.00E+00	3.09E-03	1.11E-03	5.38E-05
Cs-136	5.80E-04	1.59E-03	1.03E-03	0.00E+00	8.49E-04	1.27E-04	5.60E-05
Cs-137	8.50E-03	8.14E-03	1.20E-03	0.00E+00	2.65E-03	9.54E-04	5.10E-05
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	2.05E-03	1.79E-06	1.19E-04	0.00E+00	5.84E-07	1.07E-06	1.04E-03
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	1.01E-06	5.04E-07	7.48E-08	0.00E+00	2.21E-07	0.00E+00	6.29E-04
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	5.39E-05	1.69E-05	2.88E-06	0.00E+00	9.36E-06	0.00E+00	4.41E-03
Pr-143	9.71E-07	2.92E-07	4.82E-08	0.00E+00	1.58E-07	0.00E+00	1.05E-03
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	6.81E-07	5.52E-07	4.27E-08	0.00E+00	3.03E-07	0.00E+00	8.74E-04
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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REMP DOSE FACTORS FOR CHILD AGE GROUP: FRUIT (Page 1 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.05E-04	1.05E-04	1.05E-04	1.05E-04	1.05E-04	1.05E-04
C-14	6.29E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	2.34E-02	1.09E-03	9.00E-04	0.00E+00	0.00E+00	0.00E+00	6.46E-04
Cr-51	0.00E+00	0.00E+00	1.03E-06	5.72E-07	1.56E-07	1.05E-06	5.47E-05
Mn-54	0.00E+00	4.87E-03	1.30E-03	0.00E+00	1.37E-03	0.00E+00	4.09E-03
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	5.73E-03	3.04E-03	9.42E-04	0.00E+00	0.00E+00	1.72E-03	5.63E-04
Fe-59	3.38E-03	5.47E-03	2.72E-03	0.00E+00	0.00E+00	1.59E-03	5.69E-03
Co-58	0.00E+00	5.20E-04	1.59E-03	0.00E+00	0.00E+00	0.00E+00	3.03E-03
Co-60	0.00E+00	2.69E-03	7.94E-03	0.00E+00	0.00E+00	0.00E+00	1.49E-02
Ni-63	2.79E-01	1.50E-02	9.51E-03	0.00E+00	0.00E+00	0.00E+00	1.01E-03
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	6.01E-03	1.60E-02	9.96E-03	0.00E+00	1.01E-02	0.00E+00	2.81E-03
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	3.75E-03	2.31E-03	0.00E+00	0.00E+00	0.00E+00	2.41E-04
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	3.01E-01	0.00E+00	8.61E-03	0.00E+00	0.00E+00	0.00E+00	1.17E-02
Sr-90	8.80E+00	0.00E+00	2.23E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	1.54E-04	0.00E+00	4.11E-06	0.00E+00	0.00E+00	0.00E+00	2.05E-02
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	3.15E-05	6.92E-06	6.16E-06	0.00E+00	9.91E-06	0.00E+00	7.22E-03
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	3.57E-06	1.39E-06	9.94E-07	0.00E+00	1.31E-06	0.00E+00	2.57E-03
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR CHILD AGE GROUP: FRUIT (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	1.32E-04	0.00E+00	5.08E-05	0.00E+00	3.33E-04	0.00E+00	3.42E-03
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	5.43E-03	0.00E+00	6.78E-04	0.00E+00	7.34E-03	0.00E+00	8.45E-02
Ag-110m	2.37E-04	1.60E-04	1.28E-04	0.00E+00	2.98E-04	0.00E+00	1.91E-02
Te-125m	2.89E-03	7.84E-04	3.86E-04	8.12E-04	0.00E+00	0.00E+00	2.79E-03
Te-127m	1.03E-02	2.76E-03	1.22E-03	2.45E-03	2.93E-02	0.00E+00	8.31E-03
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	7.34E-03	2.05E-03	1.14E-03	2.37E-03	2.16E-02	0.00E+00	8.96E-03
Te-129	2.02E-05	5.64E-06	4.80E-06	1.44E-05	5.91E-05	0.00E+00	1.26E-03
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	5.07E-05	5.10E-05	2.90E-05	1.69E-02	8.37E-05	0.00E+00	4.54E-06
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	1.15E-01	1.89E-01	3.99E-02	0.00E+00	5.86E-02	2.10E-02	1.02E-03
Cs-136	5.18E-04	1.42E-03	9.22E-04	0.00E+00	7.59E-04	1.13E-04	5.01E-05
Cs-137	1.69E-01	1.62E-01	2.39E-02	0.00E+00	5.28E-02	1.90E-02	1.02E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	1.67E-03	1.47E-06	9.76E-05	0.00E+00	4.77E-07	8.73E-07	8.47E-04
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	5.74E-06	2.86E-06	4.25E-07	0.00E+00	1.26E-06	0.00E+00	3.57E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	9.34E-04	2.93E-04	4.99E-05	0.00E+00	1.62E-04	0.00E+00	7.64E-02
Pr-143	9.51E-07	2.86E-07	4.72E-08	0.00E+00	1.55E-07	0.00E+00	1.03E-03
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	3.29E-07	2.66E-07	2.06E-08	0.00E+00	1.46E-07	0.00E+00	4.22E-04
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR CHILD AGE GROUP: MEAT (Page 1 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	8.30E-06	8.30E-06	8.30E-06	8.30E-06	8.30E-06	8.30E-06
C-14	4.96E-04	9.92E-05	9.92E-05	9.92E-05	9.92E-05	9.92E-05	9.92E-05
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	1.28E-02	6.00E-04	4.94E-04	0.00E+00	0.00E+00	0.00E+00	3.54E-04
Cr-51	0.00E+00	0.00E+00	2.21E-07	1.23E-07	3.36E-08	2.24E-07	1.17E-05
Mn-54	0.00E+00	4.20E-04	1.12E-04	0.00E+00	1.18E-04	0.00E+00	3.52E-04
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	4.65E-04	2.47E-04	7.64E-05	0.00E+00	0.00E+00	1.39E-04	4.57E-05
Fe-59	4.96E-04	8.02E-04	4.00E-04	0.00E+00	0.00E+00	2.33E-04	8.35E-04
Co-58	0.00E+00	6.07E-05	1.86E-04	0.00E+00	0.00E+00	0.00E+00	3.54E-04
Co-60	0.00E+00	2.15E-04	6.35E-04	0.00E+00	0.00E+00	0.00E+00	1.19E-03
Ni-63	2.20E-02	1.18E-03	7.50E-04	0.00E+00	0.00E+00	0.00E+00	7.95E-05
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	5.31E-04	1.41E-03	8.79E-04	0.00E+00	8.91E-04	0.00E+00	2.48E-04
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.31E-03	8.04E-04	0.00E+00	0.00E+00	0.00E+00	8.41E-05
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	4.11E-02	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	1.59E-03
Sr-90	6.96E-01	0.00E+00	1.76E-01	0.00E+00	0.00E+00	0.00E+00	9.38E-03
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	1.95E-05	0.00E+00	5.21E-07	0.00E+00	0.00E+00	0.00E+00	2.59E-03
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	3.83E-06	8.42E-07	7.49E-07	0.00E+00	1.21E-06	0.00E+00	8.78E-04
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	6.21E-07	2.42E-07	1.73E-07	0.00E+00	2.27E-07	0.00E+00	4.47E-04
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR CHILD AGE GROUP: MEAT (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	2.11E-05	0.00E+00	8.10E-06	0.00E+00	5.30E-05	0.00E+00	5.45E-04
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	4.62E-04	0.00E+00	5.76E-05	0.00E+00	6.24E-04	0.00E+00	7.19E-03
Ag-110m	2.09E-05	1.41E-05	1.13E-05	0.00E+00	2.63E-05	0.00E+00	1.68E-03
Te-125m	3.68E-04	9.98E-05	4.91E-05	1.03E-04	0.00E+00	0.00E+00	3.55E-04
Te-127m	1.04E-03	2.81E-04	1.24E-04	2.49E-04	2.97E-03	0.00E+00	8.45E-04
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	1.32E-03	3.69E-04	2.05E-04	4.26E-04	3.88E-03	0.00E+00	1.61E-03
Te-129	3.64E-06	1.02E-06	8.63E-07	2.59E-06	1.06E-05	0.00E+00	2.26E-04
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	1.26E-04	1.26E-04	7.19E-05	4.18E-02	2.08E-04	0.00E+00	1.13E-05
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	9.42E-03	1.55E-02	3.26E-03	0.00E+00	4.79E-03	1.72E-03	8.33E-05
Cs-136	3.36E-04	9.24E-04	5.98E-04	0.00E+00	4.92E-04	7.34E-05	3.25E-05
Cs-137	1.34E-02	1.28E-02	1.89E-03	0.00E+00	4.18E-03	1.50E-03	8.03E-05
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	1.15E-03	1.01E-06	6.73E-05	0.00E+00	3.29E-07	6.02E-07	5.84E-04
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	1.06E-06	5.30E-07	7.87E-08	0.00E+00	2.32E-07	0.00E+00	6.61E-04
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	8.12E-05	2.55E-05	4.33E-06	0.00E+00	1.41E-05	0.00E+00	6.64E-03
Pr-143	5.80E-07	1.74E-07	2.88E-08	0.00E+00	9.43E-08	0.00E+00	6.25E-04
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	3.24E-07	2.62E-07	2.03E-08	0.00E+00	1.44E-07	0.00E+00	4.15E-04
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Approval MWS

REMP DOSE FACTORS FOR CHILD AGE GROUP: FISH (Page 1 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.40E-06	1.40E-06	1.40E-06	1.40E-06	1.40E-06	1.40E-06
C-14	8.35E-05	1.67E-05	1.67E-05	1.67E-05	1.67E-05	1.67E-05	1.67E-05
Na-24	1.32E-05	1.32E-05	1.32E-05	1.32E-05	1.32E-05	1.32E-05	1.32E-05
P-32	5.42E-03	2.54E-04	2.09E-04	0.00E+00	0.00E+00	0.00E+00	1.50E-04
Cr-51	0.00E+00	0.00E+00	5.99E-08	3.32E-08	9.08E-09	6.07E-08	3.18E-06
Mn-54	0.00E+00	7.37E-05	1.96E-05	0.00E+00	2.07E-05	0.00E+00	6.18E-05
Mn-56	0.00E+00	3.64E-09	8.21E-10	0.00E+00	4.40E-09	0.00E+00	5.27E-07
Fe-55	7.93E-05	4.21E-05	1.30E-05	0.00E+00	0.00E+00	2.38E-05	7.79E-06
Fe-59	1.12E-04	1.81E-04	9.04E-05	0.00E+00	0.00E+00	5.26E-05	1.89E-04
Co-58	0.00E+00	1.23E-05	3.76E-05	0.00E+00	0.00E+00	0.00E+00	7.17E-05
Co-60	0.00E+00	3.65E-05	1.08E-04	0.00E+00	0.00E+00	0.00E+00	2.02E-04
Ni-63	3.71E-03	1.99E-04	1.26E-04	0.00E+00	0.00E+00	0.00E+00	1.34E-05
Ni-65	2.08E-08	1.96E-09	1.14E-09	0.00E+00	0.00E+00	0.00E+00	2.40E-07
Cu-64	0.00E+00	4.56E-07	2.76E-07	0.00E+00	1.10E-06	0.00E+00	2.14E-05
Zn-65	9.43E-05	2.51E-04	1.56E-04	0.00E+00	1.58E-04	0.00E+00	4.41E-05
Zn-69	5.01E-15	7.23E-15	6.69E-16	0.00E+00	4.39E-15	0.00E+00	4.56E-13
Br-83	0.00E+00	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	3.40E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	4.45E-04	2.74E-04	0.00E+00	0.00E+00	0.00E+00	2.87E-05
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	8.98E-03	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	3.48E-04
Sr-90	1.17E-01	0.00E+00	2.97E-02	0.00E+00	0.00E+00	0.00E+00	1.58E-03
Sr-91	2.87E-05	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00	6.35E-05
Sr-92	1.34E-07	0.00E+00	5.39E-09	0.00E+00	0.00E+00	0.00E+00	2.55E-06
Y-90	2.19E-07	0.00E+00	5.86E-09	0.00E+00	0.00E+00	0.00E+00	6.23E-04
Y-91m	5.22E-18	0.00E+00	1.90E-19	0.00E+00	0.00E+00	0.00E+00	1.02E-14
Y-91	4.10E-06	0.00E+00	1.10E-07	0.00E+00	0.00E+00	0.00E+00	5.47E-04
Y-92	2.26E-10	0.00E+00	6.47E-12	0.00E+00	0.00E+00	0.00E+00	6.53E-06
Y-93	1.52E-08	0.00E+00	4.16E-10	0.00E+00	0.00E+00	0.00E+00	2.26E-04
Zr-95	7.92E-07	1.74E-07	1.55E-07	0.00E+00	2.49E-07	0.00E+00	1.82E-04
Zr-97	1.80E-08	2.60E-09	1.54E-09	0.00E+00	3.74E-09	0.00E+00	3.94E-04
Nb-95	1.52E-07	5.93E-08	4.23E-08	0.00E+00	5.57E-08	0.00E+00	1.10E-04
Mo-99	0.00E+00	7.13E-05	1.76E-05	0.00E+00	1.52E-04	0.00E+00	5.90E-05
Tc-99m	4.02E-10	7.88E-10	1.31E-08	0.00E+00	1.14E-08	4.00E-10	4.48E-07

REMP DOSE FACTORS FOR CHILD AGE GROUP: FISH (Page 2 of 2)

mrem-kg/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	4.96E-06	0.00E+00	1.91E-06	0.00E+00	1.25E-05	0.00E+00	1.28E-04
Ru-105	1.05E-08	0.00E+00	3.81E-09	0.00E+00	9.23E-08	0.00E+00	6.85E-06
Ru-106	8.06E-05	0.00E+00	1.01E-05	0.00E+00	1.09E-04	0.00E+00	1.25E-03
Ag-110m	3.71E-06	2.50E-06	2.00E-06	0.00E+00	4.67E-06	0.00E+00	2.98E-04
Te-125m	7.77E-05	2.11E-05	1.04E-05	2.18E-05	0.00E+00	0.00E+00	7.50E-05
Te-127m	1.98E-04	5.33E-05	2.35E-05	4.74E-05	5.65E-04	0.00E+00	1.60E-04
Te-127	5.48E-07	1.48E-07	1.18E-07	3.80E-07	1.56E-06	0.00E+00	2.14E-05
Te-129m	3.29E-04	9.19E-05	5.11E-05	1.06E-04	9.67E-04	0.00E+00	4.01E-04
Te-129	9.06E-07	2.53E-07	2.15E-07	6.46E-07	2.65E-06	0.00E+00	5.64E-05
Te-131m	2.85E-05	9.87E-06	1.05E-05	2.03E-05	9.55E-05	0.00E+00	4.00E-04
Te-131	2.84E-24	0.00E+00	0.00E+00	2.17E-24	8.59E-24	0.00E+00	1.49E-23
Te-132	5.63E-05	2.49E-05	3.01E-05	3.63E-05	2.31E-04	0.00E+00	2.51E-04
I-130	5.24E-06	1.06E-05	5.46E-06	1.17E-03	1.58E-05	0.00E+00	4.96E-06
I-131	1.09E-04	1.10E-04	6.22E-05	3.62E-02	1.80E-04	0.00E+00	9.75E-06
I-132	3.99E-09	7.33E-09	3.37E-09	3.40E-07	1.12E-08	0.00E+00	8.62E-09
I-133	1.84E-05	2.27E-05	8.59E-06	4.22E-03	3.78E-05	0.00E+00	9.15E-06
I-134	1.72E-14	3.20E-14	1.47E-14	7.36E-13	4.89E-14	0.00E+00	2.12E-14
I-135	9.75E-07	1.75E-06	8.30E-07	1.55E-04	2.69E-06	0.00E+00	1.34E-06
Cs-134	1.61E-03	2.65E-03	5.58E-04	0.00E+00	8.20E-04	2.94E-04	1.43E-05
Cs-136	1.54E-04	4.23E-04	2.74E-04	0.00E+00	2.25E-04	3.36E-05	1.49E-05
Cs-137	2.26E-03	2.16E-03	3.19E-04	0.00E+00	7.04E-04	2.53E-04	1.35E-05
Cs-138	5.77E-20	8.03E-20	5.09E-20	0.00E+00	5.65E-20	6.08E-21	3.70E-20
Ba-139	1.78E-11	9.49E-15	5.15E-13	0.00E+00	8.29E-15	5.58E-15	1.03E-09
Ba-140	5.43E-04	4.76E-07	3.17E-05	0.00E+00	1.55E-07	2.84E-07	2.75E-04
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	4.61E-08	1.61E-08	5.43E-09	0.00E+00	0.00E+00	0.00E+00	4.49E-04
La-142	1.06E-13	3.36E-14	1.05E-14	0.00E+00	0.00E+00	0.00E+00	6.67E-09
Ce-141	2.68E-07	1.34E-07	1.99E-08	0.00E+00	5.86E-08	0.00E+00	1.67E-04
Ce-143	2.91E-08	1.58E-05	2.29E-09	0.00E+00	6.63E-09	0.00E+00	2.31E-04
Ce-144	1.43E-05	4.49E-06	7.64E-07	0.00E+00	2.48E-06	0.00E+00	1.17E-03
Pr-143	2.58E-07	7.74E-08	1.28E-08	0.00E+00	4.19E-08	0.00E+00	2.78E-04
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.81E-07	1.46E-07	1.13E-08	0.00E+00	8.03E-08	0.00E+00	2.32E-04
W-187	1.47E-06	8.72E-07	3.91E-07	0.00E+00	0.00E+00	0.00E+00	1.23E-04
Np-239	2.70E-08	1.94E-09	1.36E-09	0.00E+00	5.60E-09	0.00E+00	1.43E-04

REMP DOSE FACTORS FOR CHILD AGE GROUP: DRINKING WATER (Page 1 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.04E-04	1.04E-04	1.04E-04	1.04E-04	1.04E-04	1.04E-04
C-14	6.17E-03	1.23E-03	1.23E-03	1.23E-03	1.23E-03	1.23E-03	1.23E-03
Na-24	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03
P-32	4.11E-01	1.92E-02	1.58E-02	0.00E+00	0.00E+00	0.00E+00	1.13E-02
Cr-51	0.00E+00	0.00E+00	4.48E-06	2.49E-06	6.80E-07	4.54E-06	2.38E-04
Mn-54	0.00E+00	5.45E-03	1.45E-03	0.00E+00	1.53E-03	0.00E+00	4.57E-03
Mn-56	0.00E+00	6.77E-06	1.53E-06	0.00E+00	8.18E-06	0.00E+00	9.81E-04
Fe-55	5.86E-03	3.11E-03	9.64E-04	0.00E+00	0.00E+00	1.76E-03	5.76E-04
Fe-59	8.35E-03	1.35E-02	6.73E-03	0.00E+00	0.00E+00	3.92E-03	1.41E-02
Co-58	0.00E+00	9.14E-04	2.80E-03	0.00E+00	0.00E+00	0.00E+00	5.33E-03
Co-60	0.00E+00	2.70E-03	7.95E-03	0.00E+00	0.00E+00	0.00E+00	1.49E-02
Ni-63	2.74E-01	1.47E-02	9.33E-03	0.00E+00	0.00E+00	0.00E+00	9.89E-04
Ni-65	4.17E-05	3.93E-06	2.29E-06	0.00E+00	0.00E+00	0.00E+00	4.81E-04
Cu-64	0.00E+00	6.49E-05	3.92E-05	0.00E+00	1.57E-04	0.00E+00	3.05E-03
Zn-65	6.98E-03	1.86E-02	1.16E-02	0.00E+00	1.17E-02	0.00E+00	3.26E-03
Zn-69	2.87E-09	4.15E-09	3.84E-10	0.00E+00	2.52E-09	0.00E+00	2.62E-07
Br-83	0.00E+00	0.00E+00	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	1.59E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	3.35E-02	2.06E-02	0.00E+00	0.00E+00	0.00E+00	2.16E-03
Rb-88	0.00E+00	6.83E-17	4.74E-17	0.00E+00	0.00E+00	0.00E+00	3.35E-18
Rb-89	0.00E+00	5.84E-19	5.19E-19	0.00E+00	0.00E+00	0.00E+00	5.09E-21
Sr-89	6.69E-01	0.00E+00	1.91E-02	0.00E+00	0.00E+00	0.00E+00	2.59E-02
Sr-90	8.67E+00	0.00E+00	2.20E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-01
Sr-91	5.10E-03	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	1.13E-02
Sr-92	2.14E-04	0.00E+00	8.58E-06	0.00E+00	0.00E+00	0.00E+00	4.05E-03
Y-90	1.84E-05	0.00E+00	4.93E-07	0.00E+00	0.00E+00	0.00E+00	5.24E-02
Y-91m	8.67E-12	0.00E+00	3.16E-13	0.00E+00	0.00E+00	0.00E+00	1.70E-08
Y-91	3.05E-04	0.00E+00	8.16E-06	0.00E+00	0.00E+00	0.00E+00	4.07E-02
Y-92	1.75E-07	0.00E+00	5.01E-09	0.00E+00	0.00E+00	0.00E+00	5.06E-03
Y-93	2.55E-06	0.00E+00	7.01E-08	0.00E+00	0.00E+00	0.00E+00	3.81E-02
Zr-95	5.88E-05	1.29E-05	1.15E-05	0.00E+00	1.85E-05	0.00E+00	1.35E-02
Zr-97	2.18E-06	3.15E-07	1.86E-07	0.00E+00	4.52E-07	0.00E+00	4.77E-02
Nb-95	1.14E-05	4.42E-06	3.16E-06	0.00E+00	4.16E-06	0.00E+00	8.18E-03
Mo-99	0.00E+00	5.98E-03	1.48E-03	0.00E+00	1.28E-02	0.00E+00	4.95E-03
Tc-99m	1.18E-07	2.32E-07	3.84E-06	0.00E+00	3.37E-06	1.18E-07	1.32E-04

REMP DOSE FACTORS FOR CHILD AGE GROUP: DRINKING WATER (Page 2 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	3.19E-22	3.34E-22	4.23E-21	0.00E+00	5.70E-21	1.77E-22	1.06E-21
Ru-103	3.70E-04	0.00E+00	1.42E-04	0.00E+00	9.30E-04	0.00E+00	9.55E-03
Ru-105	5.05E-06	0.00E+00	1.83E-06	0.00E+00	4.44E-05	0.00E+00	3.30E-03
Ru-106	5.96E-03	0.00E+00	7.44E-04	0.00E+00	8.05E-03	0.00E+00	9.27E-02
Ag-110m	2.75E-04	1.85E-04	1.48E-04	0.00E+00	3.45E-04	0.00E+00	2.21E-02
Te-125m	5.78E-03	1.57E-03	7.71E-04	1.62E-03	0.00E+00	0.00E+00	5.58E-03
Te-127m	1.47E-02	3.96E-03	1.74E-03	3.51E-03	4.19E-02	0.00E+00	1.19E-02
Te-127	9.87E-05	2.66E-05	2.12E-05	6.83E-05	2.81E-04	0.00E+00	3.86E-03
Te-129m	2.46E-02	6.86E-03	3.82E-03	7.92E-03	7.22E-02	0.00E+00	3.00E-02
Te-129	6.76E-05	1.89E-05	1.61E-05	4.83E-05	1.98E-04	0.00E+00	4.21E-03
Te-131m	2.78E-03	9.62E-04	1.02E-03	1.98E-03	9.31E-03	0.00E+00	3.90E-02
Te-131	9.43E-14	2.87E-14	2.80E-14	7.21E-14	2.85E-13	0.00E+00	4.95E-13
Te-132	4.63E-03	2.05E-03	2.48E-03	2.99E-03	1.90E-02	0.00E+00	2.06E-02
I-130	7.60E-04	1.54E-03	7.91E-04	1.69E-01	2.29E-03	0.00E+00	7.18E-04
I-131	8.40E-03	8.45E-03	4.80E-03	2.79E+00	1.39E-02	0.00E+00	7.52E-04
I-132	1.10E-05	2.02E-05	9.27E-06	9.35E-04	3.08E-05	0.00E+00	2.37E-05
I-133	2.02E-03	2.50E-03	9.47E-04	4.65E-01	4.17E-03	0.00E+00	1.01E-03
I-134	1.65E-08	3.06E-08	1.41E-08	7.05E-07	4.69E-08	0.00E+00	2.03E-08
I-135	2.54E-04	4.56E-04	2.16E-04	4.04E-02	7.00E-04	0.00E+00	3.48E-04
Cs-134	1.19E-01	1.96E-01	4.13E-02	0.00E+00	6.07E-02	2.18E-02	1.06E-03
Cs-136	1.17E-02	3.21E-02	2.08E-02	0.00E+00	1.71E-02	2.55E-03	1.13E-03
Cs-137	1.67E-01	1.60E-01	2.36E-02	0.00E+00	5.20E-02	1.87E-02	1.00E-03
Cs-138	2.23E-11	3.10E-11	1.96E-11	0.00E+00	2.18E-11	2.34E-12	1.43E-11
Ba-139	5.27E-07	2.81E-10	1.53E-08	0.00E+00	2.46E-10	1.65E-10	3.04E-05
Ba-140	4.12E-02	3.61E-05	2.41E-03	0.00E+00	1.18E-05	2.15E-05	2.09E-02
Ba-141	1.48E-16	8.26E-20	4.80E-18	0.00E+00	7.15E-20	4.86E-19	8.41E-17
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	4.19E-06	1.46E-06	4.94E-07	0.00E+00	0.00E+00	0.00E+00	4.08E-02
La-142	1.44E-09	4.60E-10	1.44E-10	0.00E+00	0.00E+00	0.00E+00	9.12E-05
Ce-141	2.00E-05	9.99E-06	1.48E-06	0.00E+00	4.38E-06	0.00E+00	1.25E-02
Ce-143	2.77E-06	1.50E-03	2.18E-07	0.00E+00	6.30E-07	0.00E+00	2.20E-02
Ce-144	1.06E-03	3.32E-04	5.65E-05	0.00E+00	1.84E-04	0.00E+00	8.66E-02
Pr-143	1.95E-05	5.87E-06	9.69E-07	0.00E+00	3.18E-06	0.00E+00	2.11E-02
Pr-144	2.00E-20	6.18E-21	1.00E-21	0.00E+00	3.27E-21	0.00E+00	1.33E-17
Nd-147	1.38E-05	1.12E-05	8.65E-07	0.00E+00	6.13E-06	0.00E+00	1.77E-02
W-187	1.54E-04	9.14E-05	4.10E-05	0.00E+00	0.00E+00	0.00E+00	1.28E-02
Np-239	2.31E-06	1.66E-07	1.17E-07	0.00E+00	4.80E-07	0.00E+00	1.23E-02

REMP DOSE FACTORS FOR CHILD AGE GROUP: INHALATION - QUARTERLY SAMPLING (Page 1 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.13E-03	1.13E-03	1.13E-03	1.13E-03	1.13E-03	1.13E-03
C-14	3.59E-02	6.73E-03	6.73E-03	6.73E-03	6.73E-03	6.73E-03	6.73E-03
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	2.38E+01	1.05E+00	9.03E-01	0.00E+00	0.00E+00	0.00E+00	3.86E-01
Cr-51	0.00E+00	0.00E+00	4.83E-04	2.68E-04	7.61E-05	5.32E-02	3.39E-03
Mn-54	0.00E+00	4.75E-02	1.05E-02	0.00E+00	1.11E-02	1.74E-02	2.53E-02
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	4.89E-02	2.60E-02	8.02E-03	0.00E+00	0.00E+00	1.15E-01	2.96E-03
Fe-59	4.20E-02	6.79E-02	3.39E-02	0.00E+00	0.00E+00	2.58E+00	1.44E-01
Co-58	0.00E+00	2.77E-03	4.94E-03	0.00E+00	0.00E+00	1.73E+00	5.37E-02
Co-60	0.00E+00	1.34E-02	2.30E-02	0.00E+00	0.00E+00	7.18E+00	9.78E-02
Ni-63	8.22E-01	4.63E-02	2.80E-02	0.00E+00	0.00E+00	2.75E-01	6.33E-03
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	4.84E-02	1.29E-01	8.00E-02	0.00E+00	8.13E-02	1.13E+00	1.86E-02
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.08E+00	6.23E-01	0.00E+00	0.00E+00	0.00E+00	4.35E-02
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	1.12E+00	0.00E+00	3.22E-02	0.00E+00	0.00E+00	4.03E+00	3.13E-01
Sr-90	1.01E+02	0.00E+00	6.46E+00	0.00E+00	0.00E+00	1.48E+01	3.44E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	1.57E+00	0.00E+00	4.19E-02	0.00E+00	0.00E+00	4.51E+00	3.16E-01
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	3.11E-01	6.85E-02	6.06E-02	0.00E+00	9.76E-02	3.66E+00	1.00E-01
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	5.79E-02	2.26E-02	1.61E-02	0.00E+00	2.12E-02	1.51E+00	9.12E-02
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Approval MWS
Date see page 1

REMP DOSE FACTORS FOR CHILD AGE GROUP: INHALATION - QUARTERLY SAMPLING (Page 2 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	6.24E-03	0.00E+00	2.40E-03	0.00E+00	1.57E-02	1.48E+00	1.00E-01
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	1.48E-01	0.00E+00	1.84E-02	0.00E+00	2.00E-01	1.56E+01	4.68E-01
Ag-110m	1.91E-02	1.29E-02	1.04E-02	0.00E+00	2.41E-02	6.21E+00	1.14E-01
Te-125m	1.16E-02	4.01E-03	1.58E-03	3.32E-03	0.00E+00	8.23E-01	5.83E-02
Te-127m	3.32E-02	1.14E-02	4.04E-03	8.11E-03	8.51E-02	1.98E+00	9.54E-02
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	4.92E-02	1.75E-02	7.80E-03	1.62E-02	1.29E-01	4.51E+00	4.66E-01
Te-129	2.50E-07	8.96E-08	6.11E-08	1.83E-07	6.58E-07	7.52E-03	6.53E-02
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	2.46E+00	2.46E+00	1.39E+00	8.30E+02	4.03E+00	0.00E+00	1.45E-01
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.79E-01	1.06E+00	2.34E-01	0.00E+00	3.45E-01	1.26E-01	4.01E-03
Cs-136	7.20E-01	1.89E+00	1.28E+00	0.00E+00	1.06E+00	1.61E-01	4.62E-02
Cs-137	9.09E-01	8.27E-01	1.29E-01	0.00E+00	2.83E-01	1.04E-01	3.63E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	8.77E-01	7.68E-04	5.13E-02	0.00E+00	2.50E-04	2.07E+01	1.21E+00
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	1.04E-01	5.17E-02	7.67E-03	0.00E+00	2.26E-02	1.44E+00	1.50E-01
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	7.57E+00	2.37E+00	4.04E-01	0.00E+00	1.31E+00	1.34E+01	4.34E-01
Pr-143	1.90E-01	5.72E-02	9.41E-03	0.00E+00	3.09E-02	4.46E+00	1.00E+00
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.93E-01	1.56E-01	1.21E-02	0.00E+00	8.57E-02	5.85E+00	1.46E+00
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR CHILD AGE GROUP: INHALATION - WEEKLY SAMPLING (Page 1 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.13E-03	1.13E-03	1.13E-03	1.13E-03	1.13E-03	1.13E-03
C-14	3.59E-02	6.73E-03	6.73E-03	6.73E-03	6.73E-03	6.73E-03	6.73E-03
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	3.09E+00	1.35E-01	1.17E-01	0.00E+00	0.00E+00	0.00E+00	5.00E-02
Cr-51	0.00E+00	0.00E+00	1.68E-04	9.33E-05	2.65E-05	1.85E-02	1.18E-03
Mn-54	0.00E+00	4.33E-02	9.58E-03	0.00E+00	1.01E-02	1.59E-02	2.31E-02
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	4.75E-02	2.52E-02	7.79E-03	0.00E+00	0.00E+00	1.11E-01	2.87E-03
Fe-59	2.18E-02	3.53E-02	1.76E-02	0.00E+00	0.00E+00	1.34E+00	7.46E-02
Co-58	0.00E+00	1.83E-03	3.27E-03	0.00E+00	0.00E+00	1.14E+00	3.56E-02
Co-60	0.00E+00	1.32E-02	2.27E-02	0.00E+00	0.00E+00	7.08E+00	9.63E-02
Ni-63	8.21E-01	4.63E-02	2.80E-02	0.00E+00	0.00E+00	2.75E-01	6.33E-03
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	4.30E-02	1.14E-01	7.10E-02	0.00E+00	7.21E-02	1.01E+00	1.65E-02
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	2.26E-01	1.30E-01	0.00E+00	0.00E+00	0.00E+00	9.10E-03
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	6.29E-01	0.00E+00	1.81E-02	0.00E+00	0.00E+00	2.26E+00	1.75E-01
Sr-90	1.01E+02	0.00E+00	6.44E+00	0.00E+00	0.00E+00	1.48E+01	3.43E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	9.53E-01	0.00E+00	2.54E-02	0.00E+00	0.00E+00	2.74E+00	1.92E-01
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.97E-01	4.34E-02	3.84E-02	0.00E+00	6.19E-02	2.32E+00	6.34E-02
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	2.52E-02	9.83E-03	7.02E-03	0.00E+00	9.24E-03	6.58E-01	3.97E-02
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR CHILD AGE GROUP: INHALATION - WEEKLY SAMPLING (Page 2 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	2.97E-03	0.00E+00	1.14E-03	0.00E+00	7.48E-03	7.04E-01	4.76E-02
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	1.37E-01	0.00E+00	1.70E-02	0.00E+00	1.85E-01	1.44E+01	4.32E-01
Ag-110m	1.70E-02	1.15E-02	9.23E-03	0.00E+00	2.14E-02	5.53E+00	1.01E-01
Te-125m	7.02E-03	2.43E-03	9.53E-04	2.01E-03	0.00E+00	4.98E-01	3.52E-02
Te-127m	2.54E-02	8.74E-03	3.09E-03	6.20E-03	6.51E-02	1.51E+00	7.30E-02
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	2.06E-02	7.36E-03	3.27E-03	6.80E-03	5.41E-02	1.89E+00	1.95E-01
Te-129	1.05E-07	3.76E-08	2.56E-08	7.68E-08	2.76E-07	3.15E-03	2.74E-02
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	4.81E-02	4.81E-02	2.73E-02	1.62E+01	7.88E-02	0.00E+00	2.84E-03
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	6.53E-01	1.02E+00	2.25E-01	0.00E+00	3.31E-01	1.21E-01	3.86E-03
Cs-136	7.83E-02	2.06E-01	1.40E-01	0.00E+00	1.15E-01	1.75E-02	5.03E-03
Cs-137	9.07E-01	8.25E-01	1.28E-01	0.00E+00	2.82E-01	1.04E-01	3.62E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	8.95E-02	7.83E-05	5.23E-03	0.00E+00	2.55E-05	2.11E+00	1.23E-01
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	4.23E-02	2.11E-02	3.12E-03	0.00E+00	9.21E-03	5.86E-01	6.10E-02
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	6.83E+00	2.13E+00	3.65E-01	0.00E+00	1.18E+00	1.21E+01	3.92E-01
Pr-143	2.21E-02	6.64E-03	1.09E-03	0.00E+00	3.59E-03	5.18E-01	1.16E-01
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.35E-02	1.09E-02	8.49E-04	0.00E+00	6.00E-03	4.09E-01	1.02E-01
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Approval MWS

REMP DOSE FACTORS FOR INFANT AGE GROUP: MILK (Page 1 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.02E-04	1.02E-04	1.02E-04	1.02E-04	1.02E-04	1.02E-04
C-14	7.82E-03	1.67E-03	1.67E-03	1.67E-03	1.67E-03	1.67E-03	1.67E-03
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	5.09E-01	2.99E-02	1.97E-02	0.00E+00	0.00E+00	0.00E+00	6.89E-03
Cr-51	0.00E+00	0.00E+00	4.43E-06	2.89E-06	6.31E-07	5.62E-06	1.29E-04
Mn-54	0.00E+00	6.54E-03	1.48E-03	0.00E+00	1.45E-03	0.00E+00	2.40E-03
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	4.58E-03	2.96E-03	7.91E-04	0.00E+00	0.00E+00	1.45E-03	3.76E-04
Fe-59	9.85E-03	1.72E-02	6.78E-03	0.00E+00	0.00E+00	5.09E-03	8.22E-03
Co-58	0.00E+00	1.16E-03	2.91E-03	0.00E+00	0.00E+00	0.00E+00	2.90E-03
Co-60	0.00E+00	3.56E-03	8.41E-03	0.00E+00	0.00E+00	0.00E+00	8.47E-03
Ni-63	2.09E-01	1.29E-02	7.26E-03	0.00E+00	0.00E+00	0.00E+00	6.43E-04
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	6.04E-03	2.07E-02	9.55E-03	0.00E+00	1.00E-02	0.00E+00	1.75E-02
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	5.21E-02	2.57E-02	0.00E+00	0.00E+00	0.00E+00	1.33E-03
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	8.06E-01	0.00E+00	2.31E-02	0.00E+00	0.00E+00	0.00E+00	1.66E-02
Sr-90	6.10E+00	0.00E+00	1.55E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-02
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	3.64E-04	0.00E+00	9.70E-06	0.00E+00	0.00E+00	0.00E+00	2.61E-02
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	6.65E-05	1.62E-05	1.15E-05	0.00E+00	1.75E-05	0.00E+00	8.07E-03
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	1.33E-05	5.49E-06	3.17E-06	0.00E+00	3.93E-06	0.00E+00	4.63E-03
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR INFANT AGE GROUP: MILK (Page 2 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	4.71E-04	0.00E+00	1.58E-04	0.00E+00	9.81E-04	0.00E+00	5.73E-03
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	7.92E-03	0.00E+00	9.90E-04	0.00E+00	9.37E-03	0.00E+00	6.02E-02
Ag-110m	3.27E-04	2.39E-04	1.58E-04	0.00E+00	3.41E-04	0.00E+00	1.24E-02
Te-125m	7.51E-03	2.51E-03	1.01E-03	2.53E-03	0.00E+00	0.00E+00	3.58E-03
Te-127m	1.91E-02	6.32E-03	2.31E-03	5.51E-03	4.69E-02	0.00E+00	7.69E-03
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	3.17E-02	1.09E-02	4.88E-03	1.22E-02	7.92E-02	0.00E+00	1.89E-02
Te-129	8.99E-05	3.10E-05	2.10E-05	7.54E-05	2.24E-04	0.00E+00	7.19E-03
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	9.97E-03	1.17E-02	5.17E-03	3.86E+00	1.37E-02	0.00E+00	4.19E-04
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	1.24E-01	2.32E-01	2.34E-02	0.00E+00	5.96E-02	2.44E-02	6.29E-04
Cs-136	1.36E-02	4.01E-02	1.50E-02	0.00E+00	1.60E-02	3.27E-03	6.09E-04
Cs-137	1.72E-01	2.02E-01	1.43E-02	0.00E+00	5.41E-02	2.19E-02	6.30E-04
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	5.06E-02	5.06E-05	2.61E-03	0.00E+00	1.20E-05	3.11E-05	1.24E-02
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	2.49E-05	1.52E-05	1.79E-06	0.00E+00	4.68E-06	0.00E+00	7.84E-03
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	9.79E-04	4.01E-04	5.48E-05	0.00E+00	1.62E-04	0.00E+00	5.62E-02
Pr-143	2.42E-05	9.06E-06	1.20E-06	0.00E+00	3.37E-06	0.00E+00	1.28E-02
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.61E-05	1.65E-05	1.01E-06	0.00E+00	6.37E-06	0.00E+00	1.05E-02
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR INFANT AGE GROUP: DRINKING WATER (Page 1 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	1.02E-04	1.02E-04	1.02E-04	1.02E-04	1.02E-04	1.02E-04
C-14	7.82E-03	1.67E-03	1.67E-03	1.67E-03	1.67E-03	1.67E-03	1.67E-03
Na-24	1.91E-03	1.91E-03	1.91E-03	1.91E-03	1.91E-03	1.91E-03	1.91E-03
P-32	5.48E-01	3.22E-02	2.12E-02	0.00E+00	0.00E+00	0.00E+00	7.41E-03
Cr-51	0.00E+00	0.00E+00	4.60E-06	3.00E-06	6.55E-07	5.83E-06	1.34E-04
Mn-54	0.00E+00	6.56E-03	1.49E-03	0.00E+00	1.45E-03	0.00E+00	2.41E-03
Mn-56	0.00E+00	1.07E-05	1.85E-06	0.00E+00	9.22E-06	0.00E+00	9.74E-04
Fe-55	4.59E-03	2.96E-03	7.92E-04	0.00E+00	0.00E+00	1.45E-03	3.76E-04
Fe-59	1.01E-02	1.76E-02	6.94E-03	0.00E+00	0.00E+00	5.21E-03	8.42E-03
Co-58	0.00E+00	1.18E-03	2.95E-03	0.00E+00	0.00E+00	0.00E+00	2.95E-03
Co-60	0.00E+00	3.56E-03	8.41E-03	0.00E+00	0.00E+00	0.00E+00	8.48E-03
Ni-63	2.09E-01	1.29E-02	7.26E-03	0.00E+00	0.00E+00	0.00E+00	6.43E-04
Ni-65	5.72E-05	6.47E-06	2.94E-06	0.00E+00	0.00E+00	0.00E+00	4.93E-04
Cu-64	0.00E+00	1.04E-04	4.83E-05	0.00E+00	1.77E-04	0.00E+00	2.14E-03
Zn-65	6.06E-03	2.08E-02	9.59E-03	0.00E+00	1.01E-02	0.00E+00	1.76E-02
Zn-69	3.96E-09	7.13E-09	5.31E-10	0.00E+00	2.96E-09	0.00E+00	5.82E-07
Br-83	0.00E+00	0.00E+00	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	1.99E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	5.51E-02	2.72E-02	0.00E+00	0.00E+00	0.00E+00	1.41E-03
Rb-88	0.00E+00	1.16E-16	6.35E-17	0.00E+00	0.00E+00	0.00E+00	1.13E-16
Rb-89	0.00E+00	9.23E-19	6.36E-19	0.00E+00	0.00E+00	0.00E+00	3.14E-19
Sr-89	8.23E-01	0.00E+00	2.36E-02	0.00E+00	0.00E+00	0.00E+00	1.69E-02
Sr-90	6.10E+00	0.00E+00	1.55E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-02
Sr-91	6.87E-03	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	8.14E-03
Sr-92	2.94E-04	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	3.17E-03
Y-90	2.52E-05	0.00E+00	6.75E-07	0.00E+00	0.00E+00	0.00E+00	3.48E-02
Y-91m	1.19E-11	0.00E+00	4.06E-13	0.00E+00	0.00E+00	0.00E+00	3.97E-08
Y-91	3.71E-04	0.00E+00	9.87E-06	0.00E+00	0.00E+00	0.00E+00	2.66E-02
Y-92	2.41E-07	0.00E+00	6.77E-09	0.00E+00	0.00E+00	0.00E+00	4.60E-03
Y-93	3.52E-06	0.00E+00	9.59E-08	0.00E+00	0.00E+00	0.00E+00	2.78E-02
Zr-95	6.76E-05	1.65E-05	1.17E-05	0.00E+00	1.78E-05	0.00E+00	8.21E-03
Zr-97	2.99E-06	5.12E-07	2.34E-07	0.00E+00	5.16E-07	0.00E+00	3.27E-02
Nb-95	1.37E-05	5.65E-06	3.27E-06	0.00E+00	4.05E-06	0.00E+00	4.77E-03
Mo-99	0.00E+00	9.89E-03	1.93E-03	0.00E+00	1.48E-02	0.00E+00	3.26E-03
Tc-99m	1.59E-07	3.28E-07	4.23E-06	0.00E+00	3.53E-06	1.72E-07	9.53E-05

REMP DOSE FACTORS FOR INFANT AGE GROUP: DRINKING WATER (Page 2 of 2)

mrem-liter/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	4.38E-22	5.52E-22	5.46E-21	0.00E+00	6.56E-21	3.01E-22	9.38E-20
Ru-103	4.84E-04	0.00E+00	1.62E-04	0.00E+00	1.01E-03	0.00E+00	5.89E-03
Ru-105	6.89E-06	0.00E+00	2.32E-06	0.00E+00	5.07E-05	0.00E+00	2.74E-03
Ru-106	7.95E-03	0.00E+00	9.92E-04	0.00E+00	9.40E-03	0.00E+00	6.03E-02
Ag-110m	3.28E-04	2.40E-04	1.59E-04	0.00E+00	3.43E-04	0.00E+00	1.24E-02
Te-125m	7.64E-03	2.56E-03	1.03E-03	2.57E-03	0.00E+00	0.00E+00	3.64E-03
Te-127m	1.92E-02	6.38E-03	2.33E-03	5.56E-03	4.74E-02	0.00E+00	7.76E-03
Te-127	1.36E-04	4.54E-05	2.91E-05	1.10E-04	3.31E-04	0.00E+00	2.85E-03
Te-129m	3.27E-02	1.12E-02	5.03E-03	1.25E-02	8.17E-02	0.00E+00	1.95E-02
Te-129	9.28E-05	3.20E-05	2.17E-05	7.77E-05	2.31E-04	0.00E+00	7.41E-03
Te-131m	3.80E-03	1.53E-03	1.26E-03	3.10E-03	1.05E-02	0.00E+00	2.58E-02
Te-131	1.29E-13	4.78E-14	3.63E-14	1.15E-13	3.31E-13	0.00E+00	5.22E-12
Te-132	6.17E-03	3.06E-03	2.85E-03	4.51E-03	1.91E-02	0.00E+00	1.13E-02
I-130	1.01E-03	2.22E-03	8.92E-04	2.49E-01	2.44E-03	0.00E+00	4.76E-04
I-131	1.13E-02	1.34E-02	5.88E-03	4.39E+00	1.56E-02	0.00E+00	4.77E-04
I-132	1.47E-05	2.99E-05	1.06E-05	1.40E-03	3.34E-05	0.00E+00	2.42E-05
I-133	2.77E-03	4.03E-03	1.18E-03	7.32E-01	4.73E-03	0.00E+00	6.81E-04
I-134	2.21E-08	4.54E-08	1.61E-08	1.06E-06	5.07E-08	0.00E+00	4.69E-08
I-135	3.41E-04	6.79E-04	2.48E-04	6.08E-02	7.57E-04	0.00E+00	2.46E-04
Cs-134	1.24E-01	2.32E-01	2.34E-02	0.00E+00	5.97E-02	2.45E-02	6.30E-04
Cs-136	1.48E-02	4.34E-02	1.62E-02	0.00E+00	1.73E-02	3.54E-03	6.59E-04
Cs-137	1.72E-01	2.02E-01	1.43E-02	0.00E+00	5.41E-02	2.19E-02	6.30E-04
Cs-138	3.04E-11	4.94E-11	2.40E-11	0.00E+00	2.47E-11	3.85E-12	7.90E-11
Ba-139	7.25E-07	4.81E-10	2.10E-08	0.00E+00	2.89E-10	2.91E-10	4.59E-05
Ba-140	5.49E-02	5.49E-05	2.83E-03	0.00E+00	1.30E-05	3.37E-05	1.35E-02
Ba-141	2.03E-16	1.39E-19	6.40E-18	0.00E+00	8.36E-20	8.45E-20	2.48E-15
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-24
La-140	5.66E-06	2.23E-06	5.74E-07	0.00E+00	0.00E+00	0.00E+00	2.62E-02
La-142	1.96E-09	7.20E-10	1.72E-10	0.00E+00	0.00E+00	0.00E+00	1.22E-04
Ce-141	2.57E-05	1.57E-05	1.84E-06	0.00E+00	4.83E-06	0.00E+00	8.10E-03
Ce-143	3.80E-06	2.52E-03	2.87E-07	0.00E+00	7.34E-07	0.00E+00	1.47E-02
Ce-144	9.82E-04	4.02E-04	5.50E-05	0.00E+00	1.62E-04	0.00E+00	5.64E-02
Pr-143	2.62E-05	9.78E-06	1.30E-06	0.00E+00	3.63E-06	0.00E+00	1.38E-02
Pr-144	2.74E-20	1.06E-20	1.38E-21	0.00E+00	3.85E-21	0.00E+00	4.94E-16
Nd-147	1.77E-05	1.82E-05	1.11E-06	0.00E+00	7.00E-06	0.00E+00	1.15E-02
W-187	2.10E-04	1.46E-04	5.05E-05	0.00E+00	0.00E+00	0.00E+00	8.59E-03
Np-239	3.16E-06	2.83E-07	1.60E-07	0.00E+00	5.64E-07	0.00E+00	8.17E-03

Approval MWS
Date see page 1

REMP DOSE FACTORS FOR INFANT AGE GROUP:INHALATION - QUARTERLY SAMPLING (Page 1 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	6.51E-04	6.51E-04	6.51E-04	6.51E-04	6.51E-04	6.51E-04
C-14	2.65E-02	5.31E-03	5.31E-03	5.31E-03	5.31E-03	5.31E-03	5.31E-03
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	1.86E+01	1.03E+00	7.08E-01	0.00E+00	0.00E+00	0.00E+00	1.47E-01
Cr-51	0.00E+00	0.00E+00	2.80E-04	1.80E-04	4.14E-05	4.02E-02	1.12E-03
Mn-54	0.00E+00	2.80E-02	5.51E-03	0.00E+00	5.51E-03	1.11E+00	7.81E-03
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	2.04E-02	1.21E-02	3.44E-03	0.00E+00	0.00E+00	8.98E-02	1.13E-03
Fe-59	2.76E-02	4.78E-02	1.93E-02	0.00E+00	0.00E+00	2.06E+00	5.03E-02
Co-58	0.00E+00	1.91E-03	2.84E-03	0.00E+00	0.00E+00	1.21E+00	1.74E-02
Co-60	0.00E+00	8.15E-03	1.20E-02	0.00E+00	0.00E+00	4.58E+00	3.24E-02
Ni-63	3.39E-01	2.05E-02	1.16E-02	0.00E+00	0.00E+00	2.09E-01	2.42E-03
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	2.20E-02	7.12E-02	3.54E-02	0.00E+00	3.70E-02	7.36E-01	5.85E-02
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	1.04E+00	4.80E-01	0.00E+00	0.00E+00	0.00E+00	1.65E-02
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	7.43E-01	0.00E+00	2.13E-02	0.00E+00	0.00E+00	3.79E+00	1.20E-01
Sr-90	4.10E+01	0.00E+00	2.60E+00	0.00E+00	0.00E+00	1.13E+01	1.31E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	1.01E+00	0.00E+00	2.69E-02	0.00E+00	0.00E+00	4.21E+00	1.21E-01
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.89E-01	4.57E-02	3.33E-02	0.00E+00	5.09E-02	2.87E+00	3.56E-02
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	3.86E-02	1.58E-02	9.32E-03	0.00E+00	1.16E-02	1.18E+00	3.12E-02
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR INFANT AGE GROUP: INHALATION - QUARTERLY SAMPLING (Page 2 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	4.50E-03	0.00E+00	1.52E-03	0.00E+00	9.48E-03	1.23E+00	3.60E-02
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	9.46E-02	0.00E+00	1.19E-02	0.00E+00	1.16E-01	1.26E+01	1.78E-01
Ag-110m	1.13E-02	8.20E-03	5.67E-03	0.00E+00	1.24E-02	4.16E+00	3.75E-02
Te-125m	8.21E-03	3.43E-03	1.14E-03	2.80E-03	0.00E+00	7.70E-01	2.23E-02
Te-127m	2.23E-02	9.23E-03	2.77E-03	6.51E-03	5.01E-02	1.75E+00	3.65E-02
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	3.62E-02	1.56E-02	5.71E-03	1.40E-02	8.15E-02	4.31E+00	1.77E-01
Te-129	2.02E-07	8.90E-08	4.81E-08	1.73E-07	4.49E-07	7.68E-03	6.75E-02
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	3.79E-02	4.44E-02	1.96E-02	1.48E+01	5.18E-02	0.00E+00	1.06E-03
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	4.13E-01	7.33E-01	7.77E-02	0.00E+00	1.99E-01	8.31E-02	1.39E-03
Cs-136	5.34E-01	1.49E+00	5.85E-01	0.00E+00	6.24E-01	1.30E-01	1.58E-02
Cs-137	5.50E-01	6.14E-01	4.56E-02	0.00E+00	1.73E-01	7.15E-02	1.34E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	6.64E-01	6.64E-04	3.44E-02	0.00E+00	1.59E-04	1.89E+01	4.55E-01
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	7.33E-02	4.41E-02	5.26E-03	0.00E+00	1.39E-02	1.37E+00	5.70E-02
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	3.57E+00	1.35E+00	1.97E-01	0.00E+00	6.01E-01	1.10E+01	1.66E-01
Pr-143	1.44E-01	5.39E-02	7.20E-03	0.00E+00	2.03E-02	4.46E+00	3.84E-01
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	1.41E-01	1.45E-01	8.91E-03	0.00E+00	5.61E-02	5.74E+00	5.56E-01
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR INFANT AGE GROUP: INHALATION - WEEKLY SAMPLING (Page 1 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
H-3	0.00E+00	6.47E-04	6.47E-04	6.47E-04	6.47E-04	6.47E-04	6.47E-04
C-14	2.65E-02	5.31E-03	5.31E-03	5.31E-03	5.31E-03	5.31E-03	5.31E-03
Na-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	2.41E+00	1.33E-01	9.17E-02	0.00E+00	0.00E+00	0.00E+00	1.91E-02
Cr-51	0.00E+00	0.00E+00	9.76E-05	6.28E-05	1.44E-05	1.40E-02	3.90E-04
Mn-54	0.00E+00	2.55E-02	5.02E-03	0.00E+00	5.02E-03	1.01E+00	7.11E-03
Mn-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-55	1.98E-02	1.18E-02	3.34E-03	0.00E+00	0.00E+00	8.72E-02	1.10E-03
Fe-59	1.43E-02	2.48E-02	1.00E-02	0.00E+00	0.00E+00	1.07E+00	2.62E-02
Co-58	0.00E+00	1.26E-03	1.88E-03	0.00E+00	0.00E+00	8.04E-01	1.15E-02
Co-60	0.00E+00	8.03E-03	1.18E-02	0.00E+00	0.00E+00	4.51E+00	3.20E-02
Ni-63	3.39E-01	2.04E-02	1.16E-02	0.00E+00	0.00E+00	2.09E-01	2.42E-03
Ni-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cu-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zn-65	1.95E-02	6.32E-02	3.14E-02	0.00E+00	3.28E-02	6.53E-01	5.19E-02
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	0.00E+00	2.17E-01	1.00E-01	0.00E+00	0.00E+00	0.00E+00	3.46E-03
Rb-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-89	4.17E-01	0.00E+00	1.20E-02	0.00E+00	0.00E+00	2.13E+00	6.71E-02
Sr-90	4.09E+01	0.00E+00	2.59E+00	0.00E+00	0.00E+00	1.12E+01	1.31E-01
Sr-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	6.13E-01	0.00E+00	1.63E-02	0.00E+00	0.00E+00	2.55E+00	7.33E-02
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	1.20E-01	2.89E-02	2.11E-02	0.00E+00	3.23E-02	1.82E+00	2.25E-02
Zr-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	1.68E-02	6.89E-03	4.05E-03	0.00E+00	5.06E-03	5.13E-01	1.36E-02
Mo-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tc-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Approval MWS
Date see page 1

REMP DOSE FACTORS FOR INFANT AGE GROUP: INHALATION - WEEKLY SAMPLING (Page 2 of 2)

mrem-m^3/pCi-yr

NUCLIDE	BONE	LIVER	T.BODY	THYROID	KIDNEY	LUNG	GI-LLI
Tc-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-103	2.14E-03	0.00E+00	7.22E-04	0.00E+00	4.51E-03	5.87E-01	1.71E-02
Ru-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ru-106	8.74E-02	0.00E+00	1.09E-02	0.00E+00	1.07E-01	1.16E+01	1.65E-01
Ag-110m	1.01E-02	7.29E-03	5.05E-03	0.00E+00	1.10E-02	3.70E+00	3.34E-02
Te-125m	4.96E-03	2.07E-03	6.86E-04	1.69E-03	0.00E+00	4.66E-01	1.35E-02
Te-127m	1.70E-02	7.06E-03	2.12E-03	4.98E-03	3.84E-02	1.34E+00	2.79E-02
Te-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-129m	1.52E-02	6.55E-03	2.39E-03	5.88E-03	3.42E-02	1.81E+00	7.42E-02
Te-129	8.47E-08	3.73E-08	2.02E-08	7.25E-08	1.88E-07	3.22E-03	2.83E-02
Te-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Te-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	3.79E-02	4.44E-02	1.96E-02	1.48E+01	5.18E-02	0.00E+00	1.06E-03
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134	3.97E-01	7.05E-01	7.47E-02	0.00E+00	1.91E-01	7.99E-02	1.34E-03
Cs-136	5.81E-02	1.62E-01	6.36E-02	0.00E+00	6.78E-02	1.41E-02	1.72E-03
Cs-137	5.49E-01	6.12E-01	4.55E-02	0.00E+00	1.72E-01	7.13E-02	1.33E-03
Cs-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	6.77E-02	6.77E-05	3.50E-03	0.00E+00	1.62E-05	1.93E+00	4.64E-02
Ba-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
La-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	2.99E-02	1.80E-02	2.14E-03	0.00E+00	5.66E-03	5.57E-01	2.32E-02
Ce-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-144	3.22E+00	1.22E+00	1.78E-01	0.00E+00	5.42E-01	9.93E+00	1.50E-01
Pr-143	1.67E-02	6.26E-03	8.35E-04	0.00E+00	2.36E-03	5.17E-01	4.45E-02
Pr-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nd-147	9.90E-03	1.01E-02	6.23E-04	0.00E+00	3.93E-03	4.02E-01	3.89E-02
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REMP DOSE FACTORS FOR ADULT AGE GROUP: SHORELINE/SEDIMENT TOTAL BODY AND SKIN DOSE

mrem-kg/pCi-yr

NUCLIDE	T.BODY	SKIN	NUCLIDE	T.BODY	SKIN
H-3	0.00E+00	0.00E+00	Ru-103	6.91E-07	8.06E-07
C-14	0.00E+00	0.00E+00	Ru-105	8.64E-07	9.79E-07
Na-24	4.80E-06	5.57E-06	Ru-106	2.88E-07	3.46E-07
P-32	0.00E+00	0.00E+00	Ag-110m	3.46E-06	4.03E-06
Cr-51	4.22E-08	4.99E-08	Te-125m	6.72E-09	9.22E-09
Mn-54	1.11E-06	1.31E-06	Te-127m	2.11E-10	2.50E-10
Mn-56	2.11E-06	2.50E-06	Te-127	1.92E-09	2.11E-09
Fe-55	0.00E+00	0.00E+00	Te-129m	1.48E-07	1.73E-07
Fe-59	1.54E-06	1.80E-06	Te-129	1.36E-07	1.61E-07
Co-58	1.34E-06	1.57E-06	Te-131m	1.61E-06	1.90E-06
Co-60	3.26E-06	3.84E-06	Te-131	4.22E-07	4.99E-04
Ni-63	0.00E+00	0.00E+00	Te-132	3.26E-07	3.84E-07
Ni-65	7.10E-07	8.26E-07	I-130	2.69E-06	3.26E-06
Cu-64	3.05E-07	3.26E-07	I-131	5.38E-07	6.53E-07
Zn-65	7.68E-07	8.83E-07	I-132	3.26E-06	3.84E-06
Zn-69	0.00E+00	0.00E+00	I-133	7.10E-07	8.64E-07
Br-83	1.23E-08	1.79E-08	I-134	3.07E-06	3.65E-06
Br-84	2.30E-06	2.69E-06	I-135	2.30E-06	2.69E-06
Br-85	0.00E+00	0.00E+00	Cs-134	2.30E-06	2.69E-06
Rb-86	1.21E-07	1.38E-07	Cs-136	2.88E-06	3.26E-06
Rb-88	6.72E-07	7.68E-07	Cs-137	8.06E-07	9.41E-07
Rb-89	2.88E-06	3.46E-06	Cs-138.	4.03E-06	4.61E-06
Sr-89	1.08E-10	1.25E-10	Ba-139	4.61E-07	5.18E-07
Sr-90	0.00E+00	0.00E+00	Ba-140	4.03E-07	4.61E-07
Sr-91	1.36E-06	1.59E-06	Ba-141	8.26E-07	9.41E-07
Sr-92	1.73E-06	1.92E-06	Ba-142	1.52E-06	1.73E-06
Y-90	4.22E-10	4.99E-10	La-140	2.88E-06	3.26E-06
Y-91m	7.30E-07	8.45E-07	La-142	2.88E-06	3.46E-06
Y-91	4.61E-09	5.18E-09	Ce-141	1.06E-07	1.19E-07
Y-92	3.07E-07	3.65E-07	Ce-143	4.22E-07	4.80E-07
Y-93	1.09E-07	1.50E-07	Ce-144	6.14E-08	7.10E-08
Zr-95	9.60E-07	1.11E-06	Pr-143	0.00E+00	0.00E+00
Zr-97	1.06E-06	1.23E-06	Pr-144	3.84E-08	4.42E-08
Nb-95	9.79E-07	1.15E-06	Nd-147	1.92E-07	2.30E-07
Mo-99	3.65E-07	4.22E-07	W-187	5.95E-07	6.91E-07
Tc-99m	1.84E-07	2.11E-07	Np-239	1.82E-07	2.11E-07
Tc-101	5.18E-07	5.76E-07			

REMP DOSE FACTORS FOR TEEN AGE GROUP:SHORELINE/SEDIMENT TOTAL BODY AND SKIN DOSE

mrem-kg/pCi-yr

NUCLIDE	T.BODY	SKIN	NUCLIDE	T.BODY	SKIN
H-3	0.00E+00	0.00E+00	Ru-103	3.86E-06	4.50E-06
C-14	0.00E+00	0.00E+00	Ru-105	4.82E-06	5.47E-06
Na-24	2.68E-05	3.11E-05	Ru-106	1.61E-06	1.93E-06
P-32	0.00E+00	0.00E+00	Ag-110m	1.93E-05	2.25E-05
Cr-51	2.36E-07	2.79E-07	Te-125m	3.75E-08	5.15E-08
Mn-54	6.22E-06	7.29E-06	Te-127m	1.18E-09	1.39E-09
Mn-56	1.18E-05	1.39E-05	Te-127	1.07E-08	1.18E-08
Fe-55	0.00E+00	0.00E+00	Te-129m	8.25E-07	9.65E-07
Fe-59	8.58E-06	1.01E-05	Te-129	7.61E-07	9.00E-07
Co-58	7.50E-06	8.79E-06	Te-131m	9.00E-06	1.06E-05
Co-60	1.82E-05	2.14E-05	Te-131	2.36E-06	2.79E-03
Ni-63	0.00E+00	0.00E+00	Te-132	1.82E-06	2.14E-06
Ni-65	3.97E-06	4.61E-06	I-130	1.50E-05	1.82E-05
Cu-64	1.70E-06	1.82E-06	I-131	3.00E-06	3.64E-06
Zn-65	4.29E-06	4.93E-06	I-132	1.82E-05	2.14E-05
Zn-69	0.00E+00	0.00E+00	I-133	3.97E-06	4.82E-06
Br-83	6.86E-08	9.97E-08	I-134	1.72E-05	2.04E-05
Br-84	1.29E-05	1.50E-05	I-135	1.29E-05	1.50E-05
Br-85	0.00E+00	0.00E+00	Cs-134	1.29E-05	1.50E-05
Rb-86	6.75E-07	7.72E-07	Cs-136	1.61E-05	1.82E-05
Rb-88	3.75E-06	4.29E-06	Cs-137	4.50E-06	5.25E-06
Rb-89	1.61E-05	1.93E-05	Cs-138	2.25E-05	2.57E-05
Sr-89	6.00E-10	6.97E-10	Ba-139	2.57E-06	2.89E-06
Sr-90	0.00E+00	0.00E+00	Ba-140	2.25E-06	2.57E-06
Sr-91	7.61E-06	8.90E-06	Ba-141	4.61E-06	5.25E-06
Sr-92	9.65E-06	1.07E-05	Ba-142	8.47E-06	9.65E-06
Y-90	2.36E-09	2.79E-09	La-140	1.61E-05	1.82E-05
Y-91m	4.07E-06	4.72E-06	La-142	1.61E-05	1.93E-05
Y-91	2.57E-08	2.89E-08	Ce-141	5.90E-07	6.65E-07
Y-92	1.72E-06	2.04E-06	Ce-143	2.36E-06	2.68E-06
Y-93	6.11E-07	8.36E-07	Ce-144	3.43E-07	3.97E-07
Zr-95	5.36E-06	6.22E-06	Pr-143	0.00E+00	0.00E+00
Zr-97	5.90E-06	6.86E-06	Pr-144	2.14E-07	2.47E-07
Nb-95	5.47E-06	6.43E-06	Nd-147	1.07E-06	1.29E-06
Mo-99	2.04E-06	2.36E-06	W-187	3.32E-06	3.86E-06
Tc-99m	1.03E-06	1.18E-06	Np-239	1.02E-06	1.18E-06
Tc-101	2.89E-06	3.22E-06			

REMP DOSE FACTORS FOR CHILD AGE GROUP: SHORELINE/SEDIMENT TOTAL BODY AND SKIN DOSE

mrem-kg/pCi-yr

NUCLIDE	T.BODY	SKIN	NUCLIDE	T.BODY	SKIN
H-3	0.00E+00	0.00E+00	Ru-103	8.06E-07	9.41E-07
C-14	0.00E+00	0.00E+00	Ru-105	1.01E-06	1.14E-06
Na-24	5.60E-06	6.50E-06	Ru-106	3.36E-07	4.03E-07
P-32	0.00E+00	0.00E+00	Ag-110m	4.03E-06	4.70E-06
Cr-51	4.93E-08	5.82E-08	Te-125m	7.84E-09	1.08E-08
Mn-54	1.30E-06	1.52E-06	Te-127m	2.46E-10	2.91E-10
Mn-56	2.46E-06	2.91E-06	Te-127	2.24E-09	2.46E-09
Fe-55	0.00E+00	0.00E+00	Te-129m	1.72E-07	2.02E-07
Fe-59	1.79E-06	2.11E-06	Te-129	1.59E-07	1.88E-07
Co-58	1.57E-06	1.84E-06	Te-131m	1.88E-06	2.22E-06
Co-60	3.81E-06	4.48E-06	Te-131	4.93E-07	5.82E-04
Ni-63	0.00E+00	0.00E+00	Te-132	3.81E-07	4.48E-07
Ni-65	8.29E-07	9.63E-07	I-130	3.14E-06	3.81E-06
Cu-64	3.56E-07	3.81E-07	I-131	6.27E-07	7.62E-07
Zn-65	8.96E-07	1.03E-06	I-132	3.81E-06	4.48E-06
Zn-69	0.00E+00	0.00E+00	I-133	8.29E-07	1.01E-06
Br-83	1.43E-08	2.08E-08	I-134	3.58E-06	4.26E-06
Br-84	2.69E-06	3.14E-06	I-135	2.69E-06	3.14E-06
Br-85	0.00E+00	0.00E+00	Cs-134	2.69E-06	3.14E-06
Rb-86	1.41E-07	1.61E-07	Cs-136	3.36E-06	3.81E-06
Rb-88	7.84E-07	8.96E-07	Cs-137	9.41E-07	1.10E-06
Rb-89	3.36E-06	4.03E-06	Cs-138	4.70E-06	5.38E-06
Sr-89	1.25E-10	1.46E-10	Ba-139	5.38E-07	6.05E-07
Sr-90	0.00E+00	0.00E+00	Ba-140	4.70E-07	5.38E-07
Sr-91	1.59E-06	1.86E-06	Ba-141	9.63E-07	1.10E-06
Sr-92	2.02E-06	2.24E-06	Ba-142	1.77E-06	2.02E-06
Y-90	4.93E-10	5.82E-10	La-140	3.36E-06	3.81E-06
Y-91m	8.51E-07	9.86E-07	La-142	3.36E-06	4.03E-06
Y-91	5.38E-09	6.05E-09	Ce-141	1.23E-07	1.39E-07
Y-92	3.58E-07	4.26E-07	Ce-143	4.93E-07	5.60E-07
Y-93	1.28E-07	1.75E-07	Ce-144	7.17E-08	8.29E-08
Zr-95	1.12E-06	1.30E-06	Pr-143	0.00E+00	0.00E+00
Zr-97	1.23E-06	1.43E-06	Pr-144	4.48E-08	5.15E-08
Nb-95	1.14E-06	1.34E-06	Nd-147	2.24E-07	2.69E-07
Mo-99	4.26E-07	4.93E-07	W-187	6.94E-07	8.06E-07
Tc-99m	2.15E-07	2.46E-07	Np-239	2.13E-07	2.46E-07
Tc-101	6.05E-07	6.72E-07			