

MONTICELLO NUCLEAR GENERATING PLANT		ODCM-APP-C
TITLE:	APPENDIX C	Revision 0
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Prepared By:	
Reviewed By:	
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1.0 RECORD OF REVISION

<u>Revision No.</u>	<u>Date</u>	<u>Reason for Revision</u>
0	October - 2000	Moved previous ODCM-10.01 tables of parameters to this document.

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Table 1 Parameters for Cow and Goat Milk Pathways

Parameter	Value	Reference in Reg. Guide 1.109 Rev. 1
Q _F (kg/day)	50 (cow) 6 (goat)	Table E-3 Table E-3
t _f (seconds)	1.73 X 10 ⁵ (2 days)	Table E-15
r	1.0 (radioiodines) 0.2 (particulates)	Table E-15 Table E-15
(DFL _i) _a (mrem/pCi)	Each radionuclide	Table E-11 to E-14
F _m (pCi/day per pCi/liter)	Each stable element	Table E-1 (cow) Table E-2 (goat)
t _b (seconds)	4.73 X 10 ⁸ (15 yr)	Table E-15
Y _s (kg/m ²)	2.0	Table E-15
Y _p (kg/m ²)	.75	Table E-15
t _h (seconds)	7.78 X 10 ⁶ (90 days)	Table E-15
U _{ap} (liters/yr)	330 infant 330 child 400 teen 310 adult	Table E-5 Table E-5 Table E-5 Table E-5
t _{ep} (seconds)	2.59 X 10 ⁶ (pasture)	Table E-15
t _{es} (seconds)	5.18 X 10 ⁶ (stored feed)	Table E-15
B _{iv} (pCi/kg (wet weight) per pCi/kg (dry soil))	Each stable element	Table E-1
P (kg dry soil/m ²)	240	Table E-15

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Table 2 Parameters for the Cow Meat Pathway

Parameter	Value	Reference in Reg. Guide 1.109 Rev. 1
r	1.0 (radioiodines) 0.2 (particulates)	Table E-15 Table E-15
F _f (pCi/kg per pCi/day)	Each stable element	Table E-1
U _{ap} (kg/yr)	0 infant 41 child 65 teen 110 adult	Table E-5 Table E-5 Table E-5 Table E-5
(DFL _i) _a (mrem/pCi)	Each radionuclide	Table E-11 to E-14
Y _p (kg/m ²)	0.7	Table E-15
Y _s (kg/m ²)	2.0	Table E-15
t _b (seconds)	4.73 X 10 ⁸ (15 yr)	Table E-15
t _s (seconds)	1.73 X 10 ⁶ (20 days)	Table E-15
t _h (seconds)	7.78 X 10 ⁶ (90 days)	Table E-15
t _{ep} (seconds)	2.59 X 10 ⁶ (pasture)	Table E-15
t _{es} (seconds)	5.18 X 10 ⁶ (stored feed)	Table E-15
Q _F (kg/day)	50	Table E-3
B _{iv} (pCi/kg (wet weight) per pCi/kg (dry soil))	Each stable element	Table E-1
P (kg dry soil/m ²)	240	Table E-15

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Table 3 Parameters for the Vegetable Pathway

Parameter	Value	Reference in Reg. Guide 1.109 Rev. 1
r (dimensionless)	1.0 (radioiodines) 0.2 (particulates)	Table E-1 Table E-1
(DFL _i) _a (mrem/Ci)	Each radionuclide	Tables E-11 to E-14
U ^L _a (kg/yr)	0 Infant 26 Child 42 Teen 64 Adult	Table E-5 Table E-5 Table E-5 Table E-5
U ^S _a (kg/yr)	0 Infant 520 Child 630 Teen 520 Adult	Table E-5 Table E-5 Table E-5 Table E-5
t _L (seconds)	8.6 X 10 ⁴ (1 day)	Table E-15
t _h (seconds)	5.18 X 10 ⁶ (60 days)	Table E-15
Y _v (kg/m ²)	2.0	Table E-15
t _e (seconds)	5.18 X 10 ⁶ (60 days)	Table E-15
t _b (seconds)	4.73 X 10 ⁸ (15 yr)	Table E-15
P (kg/(dry soil)/m ²)	240	Table E-15
B _{iv} (pCi/kg(wet weight) per pCi/kg (dry soil))	Each stable element	Table E-1