

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Table of Contents

Part I: Mixture Sums and Single Radionuclide Guidelines

Dose Conversion Factor (and Related) Parameter Summary ...	2
Site-Specific Parameter Summary	19
Summary of Pathway Selections	59
Contaminated Zone and Total Dose Summary	60
Total Dose Components	
Time = 0.000E+00	62
Time = 1.000E+00	66
Time = 3.000E+00	70
Time = 1.000E+01	74
Time = 3.000E+01	78
Time = 5.000E+01	82
Time = 1.000E+02	86
Time = 3.000E+02	90
Time = 1.000E+03	94
Dose/Source Ratios Summed Over All Pathways	98
Single Radionuclide Soil Guidelines	102
Dose Per Nuclide Summed Over All Pathways	106
Soil Concentration Per Nuclide	110
Run Time Information	114

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary

Current Library: FGR 11

Default Library: FGR 11

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	DCF's for external ground radiation, (mrem/yr)/(pCi/g)			
DCSF	Ag-110 (Source: FGR 12)	2.242E-01	2.240E-01	DCFEXT(1)
DCSF	Ag-110m (Source: FGR 12)	1.717E+01	1.720E+01	DCFEXT(2)
DCSF	Ba-137m (Source: FGR 12)	3.606E+00	3.610E+00	DCFEXT(3)
DCSF	Ba-140 (Source: FGR 12)	1.031E+00	1.030E+00	DCFEXT(4)
DCSF	Br-84 (Source: FGR 12)	1.214E+01	1.210E+01	DCFEXT(5)
DCSF	Ce-141 (Source: FGR 12)	3.176E-01	3.180E-01	DCFEXT(6)
DCSF	Ce-143 (Source: FGR 12)	1.481E+00	1.480E+00	DCFEXT(7)
DCSF	Ce-144 (Source: FGR 12)	7.174E-02	7.170E-02	DCFEXT(8)
DCSF	Co-58 (Source: FGR 12)	5.960E+00	5.960E+00	DCFEXT(9)
DCSF	Co-60 (Source: FGR 12)	1.622E+01	1.620E+01	DCFEXT(10)
DCSF	Cr-51 (Source: FGR 12)	1.745E-01	1.750E-01	DCFEXT(11)
DCSF	Cs-134 (Source: FGR 12)	9.472E+00	9.470E+00	DCFEXT(12)
DCSF	Cs-136 (Source: FGR 12)	1.330E+01	1.330E+01	DCFEXT(13)
DCSF	Cs-137 (Source: FGR 12)	7.510E-04	7.510E-04	DCFEXT(14)
DCSF	Cs-138 (Source: FGR 12)	1.552E+01	1.550E+01	DCFEXT(15)
DCSF	Fe-55 (Source: FGR 12)	0.000E+00	0.000E+00	DCFEXT(16)
DCSF	Fe-59 (Source: FGR 12)	7.641E+00	7.640E+00	DCFEXT(17)
DCSF	H-3 (Source: FGR 12)	0.000E+00	0.000E+00	DCFEXT(18)
DCSF	I-129 (Source: FGR 12)	1.295E-02	1.300E-02	DCFEXT(19)
DCSF	I-130 (Source: FGR 12)	1.293E+01	1.290E+01	DCFEXT(20)
DCSF	I-132 (Source: FGR 12)	1.409E+01	1.410E+01	DCFEXT(21)
DCSF	I-134 (Source: FGR 12)	1.642E+01	1.640E+01	DCFEXT(22)
DCSF	La-140 (Source: FGR 12)	1.506E+01	1.510E+01	DCFEXT(23)
DCSF	Mn-54 (Source: FGR 12)	5.156E+00	5.160E+00	DCFEXT(24)
DCSF	Mn-56 (Source: FGR 12)	1.106E+01	1.110E+01	DCFEXT(25)
DCSF	Mo-99 (Source: FGR 12)	8.874E-01	8.870E-01	DCFEXT(26)
DCSF	Nb-93m (Source: FGR 12)	1.041E-04	1.040E-04	DCFEXT(27)
DCSF	Nb-95 (Source: FGR 12)	4.689E+00	4.690E+00	DCFEXT(28)
DCSF	Nb-95m (Source: FGR 12)	3.195E-01	3.200E-01	DCFEXT(29)
DCSF	Pr-143 (Source: FGR 12)	2.204E-03	2.200E-03	DCFEXT(30)
DCSF	Pr-144 (Source: FGR 12)	2.522E-01	2.520E-01	DCFEXT(31)
DCSF	Pr-144m (Source: FGR 12)	1.437E-02	1.440E-02	DCFEXT(32)
DCSF	Rb-88 (Source: FGR 12)	4.372E+00	4.370E+00	DCFEXT(33)
DCSF	Rb-89 (Source: FGR 12)	1.368E+01	1.370E+01	DCFEXT(34)
DCSF	Rh-103m (Source: FGR 12)	2.429E-04	2.430E-04	DCFEXT(35)
DCSF	Ru-103 (Source: FGR 12)	2.746E+00	2.750E+00	DCFEXT(36)
DCSF	Sr-89 (Source: FGR 12)	9.080E-03	9.080E-03	DCFEXT(37)
DCSF	Sr-90 (Source: FGR 12)	7.043E-04	7.040E-04	DCFEXT(38)
DCSF	Sr-91 (Source: FGR 12)	4.353E+00	4.350E+00	DCFEXT(39)
DCSF	Sr-92 (Source: FGR 12)	8.743E+00	8.740E+00	DCFEXT(40)
DCSF	Tc-99 (Source: FGR 12)	1.255E-04	1.260E-04	DCFEXT(41)
DCSF	Tc-99m (Source: FGR 12)	5.511E-01	5.510E-01	DCFEXT(42)
DCSF	Te-127 (Source: FGR 12)	2.858E-02	2.860E-02	DCFEXT(43)
DCSF	Te-127m (Source: FGR 12)	5.455E-03	5.460E-03	DCFEXT(44)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: FGR 11

Default Library: FGR 11

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	Te-129 (Source: FGR 12)	3.307E-01	3.310E-01	DCFEXT (45)
DCSF	Te-129m (Source: FGR 12)	1.851E-01	1.850E-01	DCFEXT (46)
DCSF	Te-132 (Source: FGR 12)	1.084E+00	1.080E+00	DCFEXT (47)
DCSF	Te-134 (Source: FGR 12)	5.100E+00	5.100E+00	DCFEXT (48)
DCSF	Y-90 (Source: FGR 12)	2.391E-02	2.390E-02	DCFEXT (49)
DCSF	Y-91 (Source: FGR 12)	3.251E-02	3.250E-02	DCFEXT (50)
DCSF	Y-91m (Source: FGR 12)	3.157E+00	3.160E+00	DCFEXT (51)
DCSF	Y-92 (Source: FGR 12)	1.653E+00	1.650E+00	DCFEXT (52)
DCSF	Y-93 (Source: FGR 12)	6.053E-01	6.050E-01	DCFEXT (53)
DCSF	Zr-93 (Source: FGR 12)	0.000E+00	0.000E+00	DCFEXT (54)
DCSF	Zr-95 (Source: FGR 12)	4.521E+00	4.520E+00	DCFEXT (55)
DCSF	Dose conversion factors for inhalation, mrem/pCi:			
DCSF	Ag-110m+D	8.030E-05	8.030E-05	DCF2 (1)
DCSF	Ba-140	3.740E-06	3.740E-06	DCF2 (2)
DCSF	Br-84	9.660E-08	9.660E-08	DCF2 (3)
DCSF	Ce-141	8.950E-06	8.950E-06	DCF2 (4)
DCSF	Ce-143	3.390E-06	3.390E-06	DCF2 (5)
DCSF	Ce-144+D	3.740E-04	3.740E-04	DCF2 (6)
DCSF	Co-58	1.090E-05	1.090E-05	DCF2 (8)
DCSF	Co-60	2.190E-04	2.190E-04	DCF2 (9)
DCSF	Cr-51	3.340E-07	3.340E-07	DCF2 (10)
DCSF	Cs-134	4.620E-05	4.620E-05	DCF2 (11)
DCSF	Cs-136	7.330E-06	7.330E-06	DCF2 (12)
DCSF	Cs-137+D	3.190E-05	3.190E-05	DCF2 (13)
DCSF	Cs-138	1.010E-07	1.010E-07	DCF2 (14)
DCSF	Fe-55	2.690E-06	2.690E-06	DCF2 (15)
DCSF	Fe-59	1.480E-05	1.480E-05	DCF2 (16)
DCSF	H-3	6.400E-08	6.400E-08	DCF2 (17)
DCSF	I-129	1.740E-04	1.740E-04	DCF2 (18)
DCSF	I-130	2.640E-06	2.640E-06	DCF2 (19)
DCSF	I-132	3.810E-07	3.810E-07	DCF2 (20)
DCSF	I-134	1.310E-07	1.310E-07	DCF2 (21)
DCSF	La-140	4.850E-06	4.850E-06	DCF2 (22)
DCSF	Mn-54	6.700E-06	6.700E-06	DCF2 (23)
DCSF	Mn-56	3.770E-07	3.770E-07	DCF2 (24)
DCSF	Mo-99	3.960E-06	3.960E-06	DCF2 (25)
DCSF	Nb-93m	2.920E-05	2.920E-05	DCF2 (27)
DCSF	Nb-95	5.810E-06	5.810E-06	DCF2 (28)
DCSF	Nb-95m	2.440E-06	2.440E-06	DCF2 (29)
DCSF	Pr-143	8.100E-06	8.100E-06	DCF2 (30)
DCSF	Pr-144	4.330E-08	4.330E-08	DCF2 (31)
DCSF	Rb-88	8.360E-08	8.360E-08	DCF2 (32)
DCSF	Rb-89	4.290E-08	4.290E-08	DCF2 (33)
DCSF	Rh-103m	5.110E-09	5.110E-09	DCF2 (34)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: FGR 11

Default Library: FGR 11

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	Ru-103	8.950E-06	8.950E-06	DCF2(35)
DCSF	Sr-89	4.140E-05	4.140E-05	DCF2(37)
DCSF	Sr-90	1.300E-03	1.300E-03	DCF2(38)
DCSF	Sr-91	1.660E-06	1.660E-06	DCF2(39)
DCSF	Sr-92	8.070E-07	8.070E-07	DCF2(41)
DCSF	Tc-99	8.320E-06	8.320E-06	DCF2(42)
DCSF	Tc-99m	3.260E-08	3.260E-08	DCF2(43)
DCSF	Te-127	3.180E-07	3.180E-07	DCF2(44)
DCSF	Te-127m	2.150E-05	2.150E-05	DCF2(45)
DCSF	Te-129	8.950E-08	8.950E-08	DCF2(47)
DCSF	Te-129m	2.390E-05	2.390E-05	DCF2(48)
DCSF	Te-132	9.430E-06	9.430E-06	DCF2(50)
DCSF	Te-134	1.270E-07	1.270E-07	DCF2(51)
DCSF	Y-90	8.440E-06	8.440E-06	DCF2(52)
DCSF	Y-91	4.880E-05	4.880E-05	DCF2(53)
DCSF	Y-91m	3.630E-08	3.630E-08	DCF2(54)
DCSF	Y-92	7.810E-07	7.810E-07	DCF2(55)
DCSF	Y-93	2.150E-06	2.150E-06	DCF2(56)
DCSF	Zr-93	3.210E-04	3.210E-04	DCF2(57)
DCSF	Zr-95	2.360E-05	2.360E-05	DCF2(58)
DCSF	Dose conversion factors for ingestion, mrem/pCi:			
DCSF	Ag-110m+D	1.080E-05	1.080E-05	DCF3(1)
DCSF	Ba-140	9.470E-06	9.470E-06	DCF3(2)
DCSF	Br-84	1.820E-07	1.820E-07	DCF3(3)
DCSF	Ce-141	2.900E-06	2.900E-06	DCF3(4)
DCSF	Ce-143	4.550E-06	4.550E-06	DCF3(5)
DCSF	Ce-144+D	2.100E-05	2.100E-05	DCF3(6)
DCSF	Co-58	3.580E-06	3.580E-06	DCF3(8)
DCSF	Co-60	2.690E-05	2.690E-05	DCF3(9)
DCSF	Cr-51	1.470E-07	1.470E-07	DCF3(10)
DCSF	Cs-134	7.330E-05	7.330E-05	DCF3(11)
DCSF	Cs-136	1.120E-05	1.120E-05	DCF3(12)
DCSF	Cs-137+D	5.000E-05	5.000E-05	DCF3(13)
DCSF	Cs-138	1.940E-07	1.940E-07	DCF3(14)
DCSF	Fe-55	6.070E-07	6.070E-07	DCF3(15)
DCSF	Fe-59	6.700E-06	6.700E-06	DCF3(16)
DCSF	H-3	6.400E-08	6.400E-08	DCF3(17)
DCSF	I-129	2.760E-04	2.760E-04	DCF3(18)
DCSF	I-130	4.740E-06	4.740E-06	DCF3(19)
DCSF	I-132	6.730E-07	6.730E-07	DCF3(20)
DCSF	I-134	2.460E-07	2.460E-07	DCF3(21)
DCSF	La-140	8.440E-06	8.440E-06	DCF3(22)
DCSF	Mn-54	2.770E-06	2.770E-06	DCF3(23)
DCSF	Mn-56	9.770E-07	9.770E-07	DCF3(24)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: FGR 11

Default Library: FGR 11

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	Mo-99	5.030E-06	5.030E-06	DCF3(25)
DCSF	Nb-93m	5.220E-07	5.220E-07	DCF3(27)
DCSF	Nb-95	2.570E-06	2.570E-06	DCF3(28)
DCSF	Nb-95m	2.300E-06	2.300E-06	DCF3(29)
DCSF	Pr-143	4.700E-06	4.700E-06	DCF3(30)
DCSF	Pr-144	1.170E-07	1.170E-07	DCF3(31)
DCSF	Rb-88	1.740E-07	1.740E-07	DCF3(32)
DCSF	Rb-89	9.810E-08	9.810E-08	DCF3(33)
DCSF	Rh-103m	1.160E-08	1.160E-08	DCF3(34)
DCSF	Ru-103	3.050E-06	3.050E-06	DCF3(35)
DCSF	Sr-89	9.250E-06	9.250E-06	DCF3(37)
DCSF	Sr-90	1.420E-04	1.420E-04	DCF3(38)
DCSF	Sr-91	3.100E-06	3.100E-06	DCF3(39)
DCSF	Sr-92	2.010E-06	2.010E-06	DCF3(41)
DCSF	Tc-99	1.460E-06	1.460E-06	DCF3(42)
DCSF	Tc-99m	6.220E-08	6.220E-08	DCF3(43)
DCSF	Te-127	6.920E-07	6.920E-07	DCF3(44)
DCSF	Te-127m	8.250E-06	8.250E-06	DCF3(45)
DCSF	Te-129	2.020E-07	2.020E-07	DCF3(47)
DCSF	Te-129m	1.070E-05	1.070E-05	DCF3(48)
DCSF	Te-132	9.400E-06	9.400E-06	DCF3(50)
DCSF	Te-134	2.450E-07	2.450E-07	DCF3(51)
DCSF	Y-90	1.080E-05	1.080E-05	DCF3(52)
DCSF	Y-91	9.510E-06	9.510E-06	DCF3(53)
DCSF	Y-91m	4.140E-08	4.140E-08	DCF3(54)
DCSF	Y-92	1.910E-06	1.910E-06	DCF3(55)
DCSF	Y-93	4.550E-06	4.550E-06	DCF3(56)
DCSF	Zr-93	1.660E-06	1.660E-06	DCF3(57)
DCSF	Zr-95	3.770E-06	3.770E-06	DCF3(58)

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Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Soil to plant transfer factors:			
TF	Ag-110m+D, plant/soil concentration ratio, dimensionless	1.500E-01	1.500E-01	RTF(1,1)
TF	Ag-110m+D, plant/soil concentration ratio, dimensionless	1.500E-01	1.500E-01	RTF(1,2)
TF	Ag-110m+D, plant/soil concentration ratio, dimensionless	1.500E-01	1.500E-01	RTF(1,3)
TF	Ag-110m+D, plant/soil concentration ratio, dimensionless	1.500E-01	1.500E-01	RTF(1,4)
TF				
TF	Ba-140 , plant/soil concentration ratio, dimensionless	5.000E-03	5.000E-03	RTF(2,1)
TF	Ba-140 , plant/soil concentration ratio, dimensionless	5.000E-03	5.000E-03	RTF(2,2)
TF	Ba-140 , plant/soil concentration ratio, dimensionless	5.000E-03	5.000E-03	RTF(2,3)
TF	Ba-140 , plant/soil concentration ratio, dimensionless	5.000E-03	5.000E-03	RTF(2,4)
TF				
TF	Br-84 , plant/soil concentration ratio, dimensionless	7.600E-01	7.600E-01	RTF(3,1)
TF	Br-84 , plant/soil concentration ratio, dimensionless	7.600E-01	7.600E-01	RTF(3,2)
TF	Br-84 , plant/soil concentration ratio, dimensionless	7.600E-01	7.600E-01	RTF(3,3)
TF	Br-84 , plant/soil concentration ratio, dimensionless	7.600E-01	7.600E-01	RTF(3,4)
TF				
TF	Ce-141 , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(4,1)
TF	Ce-141 , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(4,2)
TF	Ce-141 , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(4,3)
TF	Ce-141 , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(4,4)
TF				
TF	Ce-143 , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(5,1)
TF	Ce-143 , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(5,2)
TF	Ce-143 , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(5,3)
TF	Ce-143 , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(5,4)
TF				
TF	Ce-144+D , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(6,1)
TF	Ce-144+D , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(6,2)
TF	Ce-144+D , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(6,3)
TF	Ce-144+D , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(6,4)
TF				
TF	Co-58 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(8,1)
TF	Co-58 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(8,2)
TF	Co-58 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(8,3)
TF	Co-58 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(8,4)
TF				
TF	Co-60 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(9,1)
TF	Co-60 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(9,2)
TF	Co-60 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(9,3)
TF	Co-60 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(9,4)
TF				
TF	Cr-51 , plant/soil concentration ratio, dimensionless	2.500E-04	2.500E-04	RTF(10,1)
TF	Cr-51 , plant/soil concentration ratio, dimensionless	2.500E-04	2.500E-04	RTF(10,2)
TF	Cr-51 , plant/soil concentration ratio, dimensionless	2.500E-04	2.500E-04	RTF(10,3)
TF	Cr-51 , plant/soil concentration ratio, dimensionless	2.500E-04	2.500E-04	RTF(10,4)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Cs-134 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(11,1)
TF	Cs-134 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(11,2)
TF	Cs-134 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(11,3)
TF	Cs-134 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(11,4)
TF				
TF	Cs-136 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(12,1)
TF	Cs-136 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(12,2)
TF	Cs-136 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(12,3)
TF	Cs-136 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(12,4)
TF				
TF	Cs-137+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(13,1)
TF	Cs-137+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(13,2)
TF	Cs-137+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(13,3)
TF	Cs-137+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(13,4)
TF				
TF	Cs-138 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(14,1)
TF	Cs-138 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(14,2)
TF	Cs-138 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(14,3)
TF	Cs-138 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(14,4)
TF				
TF	Fe-55 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(15,1)
TF	Fe-55 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(15,2)
TF	Fe-55 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(15,3)
TF	Fe-55 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(15,4)
TF				
TF	Fe-59 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(16,1)
TF	Fe-59 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(16,2)
TF	Fe-59 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(16,3)
TF	Fe-59 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(16,4)
TF				
TF	H-3 , plant/soil concentration ratio, dimensionless	4.800E+00	4.800E+00	RTF(17,1)
TF	H-3 , plant/soil concentration ratio, dimensionless	4.800E+00	4.800E+00	RTF(17,2)
TF	H-3 , plant/soil concentration ratio, dimensionless	4.800E+00	4.800E+00	RTF(17,3)
TF	H-3 , plant/soil concentration ratio, dimensionless	4.800E+00	4.800E+00	RTF(17,4)
TF				
TF	I-129 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(18,1)
TF	I-129 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(18,2)
TF	I-129 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(18,3)
TF	I-129 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(18,4)
TF				
TF	I-130 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(19,1)
TF	I-130 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(19,2)
TF	I-130 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(19,3)
TF	I-130 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(19,4)
TF				

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	I-132 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(20,1)
TF	I-132 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(20,2)
TF	I-132 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(20,3)
TF	I-132 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(20,4)
TF				
TF	I-134 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(21,1)
TF	I-134 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(21,2)
TF	I-134 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(21,3)
TF	I-134 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(21,4)
TF				
TF	La-140 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(22,1)
TF	La-140 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(22,2)
TF	La-140 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(22,3)
TF	La-140 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(22,4)
TF				
TF	Mn-54 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(23,1)
TF	Mn-54 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(23,2)
TF	Mn-54 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(23,3)
TF	Mn-54 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(23,4)
TF				
TF	Mn-56 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(24,1)
TF	Mn-56 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(24,2)
TF	Mn-56 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(24,3)
TF	Mn-56 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(24,4)
TF				
TF	Mo-99 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(25,1)
TF	Mo-99 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(25,2)
TF	Mo-99 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(25,3)
TF	Mo-99 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(25,4)
TF				
TF	Nb-93m , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(27,1)
TF	Nb-93m , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(27,2)
TF	Nb-93m , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(27,3)
TF	Nb-93m , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(27,4)
TF				
TF	Nb-95 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(28,1)
TF	Nb-95 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(28,2)
TF	Nb-95 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(28,3)
TF	Nb-95 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(28,4)
TF				
TF	Nb-95m , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(29,1)
TF	Nb-95m , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(29,2)
TF	Nb-95m , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(29,3)
TF	Nb-95m , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(29,4)
TF				

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Pr-143 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(30,1)
TF	Pr-143 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(30,2)
TF	Pr-143 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(30,3)
TF	Pr-143 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(30,4)
TF				
TF	Pr-144 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(31,1)
TF	Pr-144 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(31,2)
TF	Pr-144 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(31,3)
TF	Pr-144 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(31,4)
TF				
TF	Rb-88 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(32,1)
TF	Rb-88 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(32,2)
TF	Rb-88 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(32,3)
TF	Rb-88 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(32,4)
TF				
TF	Rb-89 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(33,1)
TF	Rb-89 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(33,2)
TF	Rb-89 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(33,3)
TF	Rb-89 , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(33,4)
TF				
TF	Rh-103m , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(34,1)
TF	Rh-103m , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(34,2)
TF	Rh-103m , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(34,3)
TF	Rh-103m , plant/soil concentration ratio, dimensionless	1.300E-01	1.300E-01	RTF(34,4)
TF				
TF	Ru-103 , plant/soil concentration ratio, dimensionless	3.000E-02	3.000E-02	RTF(35,1)
TF	Ru-103 , plant/soil concentration ratio, dimensionless	3.000E-02	3.000E-02	RTF(35,2)
TF	Ru-103 , plant/soil concentration ratio, dimensionless	3.000E-02	3.000E-02	RTF(35,3)
TF	Ru-103 , plant/soil concentration ratio, dimensionless	3.000E-02	3.000E-02	RTF(35,4)
TF				
TF	Sr-89 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(37,1)
TF	Sr-89 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(37,2)
TF	Sr-89 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(37,3)
TF	Sr-89 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(37,4)
TF				
TF	Sr-90 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(38,1)
TF	Sr-90 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(38,2)
TF	Sr-90 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(38,3)
TF	Sr-90 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(38,4)
TF				
TF	Sr-91 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(39,1)
TF	Sr-91 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(39,2)
TF	Sr-91 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(39,3)
TF	Sr-91 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(39,4)
TF				

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Sr-92 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(41,1)
TF	Sr-92 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(41,2)
TF	Sr-92 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(41,3)
TF	Sr-92 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(41,4)
TF				
TF	Tc-99 , plant/soil concentration ratio, dimensionless	5.000E+00	5.000E+00	RTF(42,1)
TF	Tc-99 , plant/soil concentration ratio, dimensionless	5.000E+00	5.000E+00	RTF(42,2)
TF	Tc-99 , plant/soil concentration ratio, dimensionless	5.000E+00	5.000E+00	RTF(42,3)
TF	Tc-99 , plant/soil concentration ratio, dimensionless	5.000E+00	5.000E+00	RTF(42,4)
TF				
TF	Tc-99m , plant/soil concentration ratio, dimensionless	5.000E+00	5.000E+00	RTF(43,1)
TF	Tc-99m , plant/soil concentration ratio, dimensionless	5.000E+00	5.000E+00	RTF(43,2)
TF	Tc-99m , plant/soil concentration ratio, dimensionless	5.000E+00	5.000E+00	RTF(43,3)
TF	Tc-99m , plant/soil concentration ratio, dimensionless	5.000E+00	5.000E+00	RTF(43,4)
TF				
TF	Te-127 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(44,1)
TF	Te-127 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(44,2)
TF	Te-127 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(44,3)
TF	Te-127 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(44,4)
TF				
TF	Te-127m , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(45,1)
TF	Te-127m , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(45,2)
TF	Te-127m , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(45,3)
TF	Te-127m , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(45,4)
TF				
TF	Te-129 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(47,1)
TF	Te-129 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(47,2)
TF	Te-129 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(47,3)
TF	Te-129 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(47,4)
TF				
TF	Te-129m , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(48,1)
TF	Te-129m , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(48,2)
TF	Te-129m , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(48,3)
TF	Te-129m , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(48,4)
TF				
TF	Te-132 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(50,1)
TF	Te-132 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(50,2)
TF	Te-132 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(50,3)
TF	Te-132 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(50,4)
TF				
TF	Te-134 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(51,1)
TF	Te-134 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(51,2)
TF	Te-134 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(51,3)
TF	Te-134 , plant/soil concentration ratio, dimensionless	6.000E-01	6.000E-01	RTF(51,4)
TF				

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Y-90 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(52,1)
TF	Y-90 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(52,2)
TF	Y-90 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(52,3)
TF	Y-90 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(52,4)
TF				
TF	Y-91 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(53,1)
TF	Y-91 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(53,2)
TF	Y-91 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(53,3)
TF	Y-91 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(53,4)
TF				
TF	Y-91m , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(54,1)
TF	Y-91m , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(54,2)
TF	Y-91m , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(54,3)
TF	Y-91m , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(54,4)
TF				
TF	Y-92 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(55,1)
TF	Y-92 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(55,2)
TF	Y-92 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(55,3)
TF	Y-92 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(55,4)
TF				
TF	Y-93 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(56,1)
TF	Y-93 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(56,2)
TF	Y-93 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(56,3)
TF	Y-93 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(56,4)
TF				
TF	Zr-93 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(57,1)
TF	Zr-93 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(57,2)
TF	Zr-93 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(57,3)
TF	Zr-93 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(57,4)
TF				
TF	Zr-95 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(58,1)
TF	Zr-95 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(58,2)
TF	Zr-95 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(58,3)
TF	Zr-95 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(58,4)
TF				
TF	intake to meat/milk transfer factors:			
TF	Ag-110m+D, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-03	3.000E-03	I_M(1,1)
TF	Ag-110m+D, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.500E-02	2.500E-02	I_M(1,2)
TF				
TF	Ba-140 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-04	2.000E-04	I_M(2,1)
TF	Ba-140 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-04	5.000E-04	I_M(2,2)
TF				
TF	Br-84 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	I_M(3,1)
TF	Br-84 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-02	2.000E-02	I_M(3,2)
TF				

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Ce-141 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	2.000E-05	2.000E-05	I_M(4,1)
TF	Ce-141 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	5.000E-05	5.000E-05	I_M(4,2)
TF				
TF	Ce-143 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	2.000E-05	2.000E-05	I_M(5,1)
TF	Ce-143 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	5.000E-05	5.000E-05	I_M(5,2)
TF				
TF	Ce-144+D , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	2.000E-05	2.000E-05	I_M(6,1)
TF	Ce-144+D , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	5.000E-05	5.000E-05	I_M(6,2)
TF				
TF	Co-58 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	2.000E-02	2.000E-02	I_M(8,1)
TF	Co-58 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	2.000E-03	2.000E-03	I_M(8,2)
TF				
TF	Co-60 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	2.000E-02	2.000E-02	I_M(9,1)
TF	Co-60 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	2.000E-03	2.000E-03	I_M(9,2)
TF				
TF	Cr-51 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	9.000E-03	9.000E-03	I_M(10,1)
TF	Cr-51 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	2.000E-03	2.000E-03	I_M(10,2)
TF				
TF	Cs-134 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	3.000E-02	3.000E-02	I_M(11,1)
TF	Cs-134 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	8.000E-03	8.000E-03	I_M(11,2)
TF				
TF	Cs-136 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	3.000E-02	3.000E-02	I_M(12,1)
TF	Cs-136 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	8.000E-03	8.000E-03	I_M(12,2)
TF				
TF	Cs-137+D , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	3.000E-02	3.000E-02	I_M(13,1)
TF	Cs-137+D , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	8.000E-03	8.000E-03	I_M(13,2)
TF				
TF	Cs-138 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	3.000E-02	3.000E-02	I_M(14,1)
TF	Cs-138 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	8.000E-03	8.000E-03	I_M(14,2)
TF				
TF	Fe-55 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	2.000E-02	2.000E-02	I_M(15,1)
TF	Fe-55 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	3.000E-04	3.000E-04	I_M(15,2)
TF				
TF	Fe-59 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	2.000E-02	2.000E-02	I_M(16,1)
TF	Fe-59 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	3.000E-04	3.000E-04	I_M(16,2)
TF				
TF	H-3 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	1.200E-02	1.200E-02	I_M(17,1)
TF	H-3 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	1.000E-02	1.000E-02	I_M(17,2)
TF				
TF	I-129 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	7.000E-03	7.000E-03	I_M(18,1)
TF	I-129 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	1.000E-02	1.000E-02	I_M(18,2)
TF				
TF	I-130 , beef/livestock-intake ratio, (pCi/kg) / (pCi/d)	7.000E-03	7.000E-03	I_M(19,1)
TF	I-130 , milk/livestock-intake ratio, (pCi/L) / (pCi/d)	1.000E-02	1.000E-02	I_M(19,2)
TF				

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	I-132 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	7.000E-03	7.000E-03	I_M(20,1)
TF	I-132 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	I_M(20,2)
TF				
TF	I-134 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	7.000E-03	7.000E-03	I_M(21,1)
TF	I-134 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	I_M(21,2)
TF				
TF	La-140 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	I_M(22,1)
TF	La-140 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	I_M(22,2)
TF				
TF	Mn-54 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-04	5.000E-04	I_M(23,1)
TF	Mn-54 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	I_M(23,2)
TF				
TF	Mn-56 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-04	5.000E-04	I_M(24,1)
TF	Mn-56 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	I_M(24,2)
TF				
TF	Mo-99 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	I_M(25,1)
TF	Mo-99 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.700E-03	1.700E-03	I_M(25,2)
TF				
TF	Nb-93m , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-07	3.000E-07	I_M(27,1)
TF	Nb-93m , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	I_M(27,2)
TF				
TF	Nb-95 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-07	3.000E-07	I_M(28,1)
TF	Nb-95 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	I_M(28,2)
TF				
TF	Nb-95m , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-07	3.000E-07	I_M(29,1)
TF	Nb-95m , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	I_M(29,2)
TF				
TF	Pr-143 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	I_M(30,1)
TF	Pr-143 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	I_M(30,2)
TF				
TF	Pr-144 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	I_M(31,1)
TF	Pr-144 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	I_M(31,2)
TF				
TF	Rb-88 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.500E-02	1.500E-02	I_M(32,1)
TF	Rb-88 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	I_M(32,2)
TF				
TF	Rb-89 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.500E-02	1.500E-02	I_M(33,1)
TF	Rb-89 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	I_M(33,2)
TF				
TF	Rh-103m , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	I_M(34,1)
TF	Rh-103m , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-03	5.000E-03	I_M(34,2)
TF				
TF	Ru-103 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	I_M(35,1)
TF	Ru-103 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.300E-06	3.300E-06	I_M(35,2)
TF				

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Sr-89 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-03	8.000E-03	I_M(37,1)
TF	Sr-89 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	I_M(37,2)
TF				
TF	Sr-90 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-03	8.000E-03	I_M(38,1)
TF	Sr-90 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	I_M(38,2)
TF				
TF	Sr-91 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-03	8.000E-03	I_M(39,1)
TF	Sr-91 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	I_M(39,2)
TF				
TF	Sr-92 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-03	8.000E-03	I_M(41,1)
TF	Sr-92 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	I_M(41,2)
TF				
TF	Tc-99 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	I_M(42,1)
TF	Tc-99 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	I_M(42,2)
TF				
TF	Tc-99m , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	I_M(43,1)
TF	Tc-99m , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	I_M(43,2)
TF				
TF	Te-127 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	7.000E-03	7.000E-03	I_M(44,1)
TF	Te-127 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-04	5.000E-04	I_M(44,2)
TF				
TF	Te-127m , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	7.000E-03	7.000E-03	I_M(45,1)
TF	Te-127m , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-04	5.000E-04	I_M(45,2)
TF				
TF	Te-129 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	7.000E-03	7.000E-03	I_M(47,1)
TF	Te-129 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-04	5.000E-04	I_M(47,2)
TF				
TF	Te-129m , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	7.000E-03	7.000E-03	I_M(48,1)
TF	Te-129m , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-04	5.000E-04	I_M(48,2)
TF				
TF	Te-132 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	7.000E-03	7.000E-03	I_M(50,1)
TF	Te-132 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-04	5.000E-04	I_M(50,2)
TF				
TF	Te-134 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	7.000E-03	7.000E-03	I_M(51,1)
TF	Te-134 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-04	5.000E-04	I_M(51,2)
TF				
TF	Y-90 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	I_M(52,1)
TF	Y-90 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	I_M(52,2)
TF				
TF	Y-91 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	I_M(53,1)
TF	Y-91 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	I_M(53,2)
TF				
TF	Y-91m , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	I_M(54,1)
TF	Y-91m , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	I_M(54,2)
TF				

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Y-92 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	I_M(55,1)
TF	Y-92 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	I_M(55,2)
TF				
TF	Y-93 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	I_M(56,1)
TF	Y-93 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	I_M(56,2)
TF				
TF	Zr-93 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-06	1.000E-06	I_M(57,1)
TF	Zr-93 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-07	6.000E-07	I_M(57,2)
TF				
TF	Zr-95 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-06	1.000E-06	I_M(58,1)
TF	Zr-95 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-07	6.000E-07	I_M(58,2)
TF				
TF	Bioaccumulation factors, fresh water, L/kg:			
TF	Ag-110mD, fish	5.000E+00	5.000E+00	BIOFA(1,1)
TF	Ag-110mD, crustacea and mollusks	7.700E+02	7.700E+02	BIOFA(1,2)
TF				
TF	Ba-140 , fish	4.000E+00	4.000E+00	BIOFA(2,1)
TF	Ba-140 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFA(2,2)
TF				
TF	Br-84 , fish	4.200E+02	4.200E+02	BIOFA(3,1)
TF	Br-84 , crustacea and mollusks	3.300E+02	3.300E+02	BIOFA(3,2)
TF				
TF	Ce-141 , fish	3.000E+01	3.000E+01	BIOFA(4,1)
TF	Ce-141 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(4,2)
TF				
TF	Ce-143 , fish	3.000E+01	3.000E+01	BIOFA(5,1)
TF	Ce-143 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(5,2)
TF				
TF	Ce-144D , fish	3.000E+01	3.000E+01	BIOFA(6,1)
TF	Ce-144D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(6,2)
TF				
TF	Co-58 , fish	3.000E+02	3.000E+02	BIOFA(8,1)
TF	Co-58 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFA(8,2)
TF				
TF	Co-60 , fish	3.000E+02	3.000E+02	BIOFA(9,1)
TF	Co-60 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFA(9,2)
TF				
TF	Cr-51 , fish	2.000E+02	2.000E+02	BIOFA(10,1)
TF	Cr-51 , crustacea and mollusks	2.000E+03	2.000E+03	BIOFA(10,2)
TF				
TF	Cs-134 , fish	2.000E+03	2.000E+03	BIOFA(11,1)
TF	Cs-134 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(11,2)
TF				
TF	Cs-136 , fish	2.000E+03	2.000E+03	BIOFA(12,1)
TF	Cs-136 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(12,2)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Cs-137+D , fish	2.000E+03	2.000E+03	BIOFA(13,1)
TF	Cs-137+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(13,2)
TF				
TF	Cs-138 , fish	2.000E+03	2.000E+03	BIOFA(14,1)
TF	Cs-138 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(14,2)
TF				
TF	Fe-55 , fish	2.000E+02	2.000E+02	BIOFA(15,1)
TF	Fe-55 , crustacea and mollusks	3.200E+03	3.200E+03	BIOFA(15,2)
TF				
TF	Fe-59 , fish	2.000E+02	2.000E+02	BIOFA(16,1)
TF	Fe-59 , crustacea and mollusks	3.200E+03	3.200E+03	BIOFA(16,2)
TF				
TF	H-3 , fish	1.000E+00	1.000E+00	BIOFA(17,1)
TF	H-3 , crustacea and mollusks	1.000E+00	1.000E+00	BIOFA(17,2)
TF				
TF	I-129 , fish	4.000E+01	4.000E+01	BIOFA(18,1)
TF	I-129 , crustacea and mollusks	5.000E+00	5.000E+00	BIOFA(18,2)
TF				
TF	I-130 , fish	4.000E+01	4.000E+01	BIOFA(19,1)
TF	I-130 , crustacea and mollusks	5.000E+00	5.000E+00	BIOFA(19,2)
TF				
TF	I-132 , fish	4.000E+01	4.000E+01	BIOFA(20,1)
TF	I-132 , crustacea and mollusks	5.000E+00	5.000E+00	BIOFA(20,2)
TF				
TF	I-134 , fish	4.000E+01	4.000E+01	BIOFA(21,1)
TF	I-134 , crustacea and mollusks	5.000E+00	5.000E+00	BIOFA(21,2)
TF				
TF	La-140 , fish	3.000E+01	3.000E+01	BIOFA(22,1)
TF	La-140 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(22,2)
TF				
TF	Mn-54 , fish	4.000E+02	4.000E+02	BIOFA(23,1)
TF	Mn-54 , crustacea and mollusks	9.000E+04	9.000E+04	BIOFA(23,2)
TF				
TF	Mn-56 , fish	4.000E+02	4.000E+02	BIOFA(24,1)
TF	Mn-56 , crustacea and mollusks	9.000E+04	9.000E+04	BIOFA(24,2)
TF				
TF	Mo-99 , fish	1.000E+01	1.000E+01	BIOFA(25,1)
TF	Mo-99 , crustacea and mollusks	1.000E+01	1.000E+01	BIOFA(25,2)
TF				
TF	Nb-93m , fish	3.000E+02	3.000E+02	BIOFA(27,1)
TF	Nb-93m , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(27,2)
TF				
TF	Nb-95 , fish	3.000E+02	3.000E+02	BIOFA(28,1)
TF	Nb-95 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(28,2)
TF				

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Nb-95m , fish	3.000E+02	3.000E+02	BIOFA(29,1)
TF	Nb-95m , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(29,2)
TF				
TF	Pr-143 , fish	1.000E+02	1.000E+02	BIOFA(30,1)
TF	Pr-143 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(30,2)
TF				
TF	Pr-144 , fish	1.000E+02	1.000E+02	BIOFA(31,1)
TF	Pr-144 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(31,2)
TF				
TF	Rb-88 , fish	2.000E+03	2.000E+03	BIOFA(32,1)
TF	Rb-88 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(32,2)
TF				
TF	Rb-89 , fish	2.000E+03	2.000E+03	BIOFA(33,1)
TF	Rb-89 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(33,2)
TF				
TF	Rh-103m , fish	1.000E+01	1.000E+01	BIOFA(34,1)
TF	Rh-103m , crustacea and mollusks	3.000E+02	3.000E+02	BIOFA(34,2)
TF				
TF	Ru-103 , fish	1.000E+01	1.000E+01	BIOFA(35,1)
TF	Ru-103 , crustacea and mollusks	3.000E+02	3.000E+02	BIOFA(35,2)
TF				
TF	Sr-89 , fish	6.000E+01	6.000E+01	BIOFA(37,1)
TF	Sr-89 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(37,2)
TF				
TF	Sr-90 , fish	6.000E+01	6.000E+01	BIOFA(38,1)
TF	Sr-90 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(38,2)
TF				
TF	Sr-91 , fish	6.000E+01	6.000E+01	BIOFA(39,1)
TF	Sr-91 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(39,2)
TF				
TF	Sr-92 , fish	6.000E+01	6.000E+01	BIOFA(41,1)
TF	Sr-92 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(41,2)
TF				
TF	Tc-99 , fish	2.000E+01	2.000E+01	BIOFA(42,1)
TF	Tc-99 , crustacea and mollusks	5.000E+00	5.000E+00	BIOFA(42,2)
TF				
TF	Tc-99m , fish	2.000E+01	2.000E+01	BIOFA(43,1)
TF	Tc-99m , crustacea and mollusks	5.000E+00	5.000E+00	BIOFA(43,2)
TF				
TF	Te-127 , fish	4.000E+02	4.000E+02	BIOFA(44,1)
TF	Te-127 , crustacea and mollusks	7.500E+01	7.500E+01	BIOFA(44,2)
TF				
TF	Te-127m , fish	4.000E+02	4.000E+02	BIOFA(45,1)
TF	Te-127m , crustacea and mollusks	7.500E+01	7.500E+01	BIOFA(45,2)
TF				

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	Te-129 , fish	4.000E+02	4.000E+02	BIOFA(47,1)
TF	Te-129 , crustacea and mollusks	7.500E+01	7.500E+01	BIOFA(47,2)
TF				
TF	Te-129m , fish	4.000E+02	4.000E+02	BIOFA(48,1)
TF	Te-129m , crustacea and mollusks	7.500E+01	7.500E+01	BIOFA(48,2)
TF				
TF	Te-132 , fish	4.000E+02	4.000E+02	BIOFA(50,1)
TF	Te-132 , crustacea and mollusks	7.500E+01	7.500E+01	BIOFA(50,2)
TF				
TF	Te-134 , fish	4.000E+02	4.000E+02	BIOFA(51,1)
TF	Te-134 , crustacea and mollusks	7.500E+01	7.500E+01	BIOFA(51,2)
TF				
TF	Y-90 , fish	3.000E+01	3.000E+01	BIOFA(52,1)
TF	Y-90 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(52,2)
TF				
TF	Y-91 , fish	3.000E+01	3.000E+01	BIOFA(53,1)
TF	Y-91 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(53,2)
TF				
TF	Y-91m , fish	3.000E+01	3.000E+01	BIOFA(54,1)
TF	Y-91m , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(54,2)
TF				
TF	Y-92 , fish	3.000E+01	3.000E+01	BIOFA(55,1)
TF	Y-92 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(55,2)
TF				
TF	Y-93 , fish	3.000E+01	3.000E+01	BIOFA(56,1)
TF	Y-93 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFA(56,2)
TF				
TF	Zr-93 , fish	3.000E+02	3.000E+02	BIOFA(57,1)
TF	Zr-93 , crustacea and mollusks	6.700E+00	6.700E+00	BIOFA(57,2)
TF				
TF	Zr-95 , fish	3.000E+02	3.000E+02	BIOFA(58,1)
TF	Zr-95 , crustacea and mollusks	6.700E+00	6.700E+00	BIOFA(58,2)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
FSTI	Exposure duration	1.000E+00	3.000E+01	---	ED
FSTI	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+01	---	BRDL
CONC	Initial principal radionuclide (pCi/g): Ag-110m	4.040E+02	0.000E+00	---	S1 (1)
CONC	Initial principal radionuclide (pCi/g): Ba-140	1.010E+03	0.000E+00	---	S1 (2)
CONC	Initial principal radionuclide (pCi/g): Br-84	1.717E+04	0.000E+00	---	S1 (3)
CONC	Initial principal radionuclide (pCi/g): Ce-141	1.616E+02	0.000E+00	---	S1 (4)
CONC	Initial principal radionuclide (pCi/g): Ce-143	1.414E+02	0.000E+00	---	S1 (5)
CONC	Initial principal radionuclide (pCi/g): Ce-144	1.212E+02	0.000E+00	---	S1 (6)
CONC	Initial principal radionuclide (pCi/g): Co-58	1.919E+03	0.000E+00	---	S1 (8)
CONC	Initial principal radionuclide (pCi/g): Co-60	2.222E+02	0.000E+00	---	S1 (9)
CONC	Initial principal radionuclide (pCi/g): Cr-51	1.313E+03	0.000E+00	---	S1 (10)
CONC	Initial principal radionuclide (pCi/g): Cs-134	6.969E+05	0.000E+00	---	S1 (11)
CONC	Initial principal radionuclide (pCi/g): Cs-136	1.010E+06	0.000E+00	---	S1 (12)
CONC	Initial principal radionuclide (pCi/g): Cs-137	5.050E+05	0.000E+00	---	S1 (13)
CONC	Initial principal radionuclide (pCi/g): Cs-138	3.737E+05	0.000E+00	---	S1 (14)
CONC	Initial principal radionuclide (pCi/g): Fe-55	5.050E+02	0.000E+00	---	S1 (15)
CONC	Initial principal radionuclide (pCi/g): Fe-59	1.313E+02	0.000E+00	---	S1 (16)
CONC	Initial principal radionuclide (pCi/g): H-3	1.010E+06	0.000E+00	---	S1 (17)
CONC	Initial principal radionuclide (pCi/g): I-129	1.515E-02	0.000E+00	---	S1 (18)
CONC	Initial principal radionuclide (pCi/g): I-130	1.111E+04	0.000E+00	---	S1 (19)
CONC	Initial principal radionuclide (pCi/g): I-132	9.494E+05	0.000E+00	---	S1 (20)
CONC	Initial principal radionuclide (pCi/g): I-134	2.222E+05	0.000E+00	---	S1 (21)
CONC	Initial principal radionuclide (pCi/g): La-140	3.131E+02	0.000E+00	---	S1 (22)
CONC	Initial principal radionuclide (pCi/g): Mn-54	6.767E+02	0.000E+00	---	S1 (23)
CONC	Initial principal radionuclide (pCi/g): Mn-56	1.717E+05	0.000E+00	---	S1 (24)
CONC	Initial principal radionuclide (pCi/g): Mo-99	2.121E+05	0.000E+00	---	S1 (25)
CONC	Initial principal radionuclide (pCi/g): Nb-95	1.616E+02	0.000E+00	---	S1 (28)
CONC	Initial principal radionuclide (pCi/g): Pr-143	1.515E+02	0.000E+00	---	S1 (30)
CONC	Initial principal radionuclide (pCi/g): Pr-144	1.212E+02	0.000E+00	---	S1 (31)
CONC	Initial principal radionuclide (pCi/g): Rb-88	1.520E+06	0.000E+00	---	S1 (32)
CONC	Initial principal radionuclide (pCi/g): Rb-89	6.969E+04	0.000E+00	---	S1 (33)
CONC	Initial principal radionuclide (pCi/g): Rh-103m	1.414E+02	0.000E+00	---	S1 (34)
CONC	Initial principal radionuclide (pCi/g): Ru-103	1.414E+02	0.000E+00	---	S1 (35)
CONC	Initial principal radionuclide (pCi/g): Sr-89	1.111E+03	0.000E+00	---	S1 (37)
CONC	Initial principal radionuclide (pCi/g): Sr-90	4.949E+01	0.000E+00	---	S1 (38)
CONC	Initial principal radionuclide (pCi/g): Sr-91	1.717E+03	0.000E+00	---	S1 (39)
CONC	Initial principal radionuclide (pCi/g): Sr-92	4.141E+02	0.000E+00	---	S1 (41)
CONC	Initial principal radionuclide (pCi/g): Tc-99m	2.020E+05	0.000E+00	---	S1 (43)
CONC	Initial principal radionuclide (pCi/g): Te-127m	7.676E+02	0.000E+00	---	S1 (45)
CONC	Initial principal radionuclide (pCi/g): Te-129	3.838E+03	0.000E+00	---	S1 (47)
CONC	Initial principal radionuclide (pCi/g): Te-129m	2.626E+03	0.000E+00	---	S1 (48)
CONC	Initial principal radionuclide (pCi/g): Te-132	7.979E+04	0.000E+00	---	S1 (50)
CONC	Initial principal radionuclide (pCi/g): Te-134	1.111E+04	0.000E+00	---	S1 (51)
CONC	Initial principal radionuclide (pCi/g): Y-90	1.313E+01	0.000E+00	---	S1 (52)
CONC	Initial principal radionuclide (pCi/g): Y-91	1.414E+02	0.000E+00	---	S1 (53)
CONC	Initial principal radionuclide (pCi/g): Y-91m	9.292E+02	0.000E+00	---	S1 (54)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
CONC	Initial principal radionuclide (pCi/g): Y-92	3.434E+02	0.000E+00	---	S1 (55)
CONC	Initial principal radionuclide (pCi/g): Y-93	1.111E+02	0.000E+00	---	S1 (56)
CONC	Initial principal radionuclide (pCi/g): Zr-95	1.616E+02	0.000E+00	---	S1 (58)
VDEP	Deposition velocity for Ag-110m	1.000E-03	1.000E-03	---	DEPVEL (1)
VDEP	Deposition velocity for Ba-140	1.000E-03	1.000E-03	---	DEPVEL (2)
VDEP	Deposition velocity for Br-84	1.000E-02	1.000E-02	---	DEPVEL (3)
VDEP	Deposition velocity for Ce-141	1.000E-03	1.000E-03	---	DEPVEL (4)
VDEP	Deposition velocity for Ce-143	1.000E-03	1.000E-03	---	DEPVEL (5)
VDEP	Deposition velocity for Ce-144	1.000E-03	1.000E-03	---	DEPVEL (6)
VDEP	Deposition velocity for Co-58	1.000E-03	1.000E-03	---	DEPVEL (8)
VDEP	Deposition velocity for Co-60	1.000E-03	1.000E-03	---	DEPVEL (9)
VDEP	Deposition velocity for Cr-51	1.000E-03	1.000E-03	---	DEPVEL (10)
VDEP	Deposition velocity for Cs-134	1.000E-03	1.000E-03	---	DEPVEL (11)
VDEP	Deposition velocity for Cs-136	1.000E-03	1.000E-03	---	DEPVEL (12)
VDEP	Deposition velocity for Cs-137	1.000E-03	1.000E-03	---	DEPVEL (13)
VDEP	Deposition velocity for Cs-138	1.000E-03	1.000E-03	---	DEPVEL (14)
VDEP	Deposition velocity for Fe-55	1.000E-03	1.000E-03	---	DEPVEL (15)
VDEP	Deposition velocity for Fe-59	1.000E-03	1.000E-03	---	DEPVEL (16)
VDEP	Deposition velocity for H-3	1.000E-03	1.000E-03	---	DEPVEL (17)
VDEP	Deposition velocity for I-129	1.000E-02	1.000E-02	---	DEPVEL (18)
VDEP	Deposition velocity for I-130	1.000E-02	1.000E-02	---	DEPVEL (19)
VDEP	Deposition velocity for I-132	1.000E-02	1.000E-02	---	DEPVEL (20)
VDEP	Deposition velocity for I-134	1.000E-02	1.000E-02	---	DEPVEL (21)
VDEP	Deposition velocity for La-140	1.000E-03	1.000E-03	---	DEPVEL (22)
VDEP	Deposition velocity for Mn-54	1.000E-03	1.000E-03	---	DEPVEL (23)
VDEP	Deposition velocity for Mn-56	1.000E-03	1.000E-03	---	DEPVEL (24)
VDEP	Deposition velocity for Mo-99	1.000E-03	1.000E-03	---	DEPVEL (25)
VDEP	Deposition velocity for Nb-93m	1.000E-03	1.000E-03	---	DEPVEL (27)
VDEP	Deposition velocity for Nb-95	1.000E-03	1.000E-03	---	DEPVEL (28)
VDEP	Deposition velocity for Nb-95m	1.000E-03	1.000E-03	---	DEPVEL (29)
VDEP	Deposition velocity for Pr-143	1.000E-03	1.000E-03	---	DEPVEL (30)
VDEP	Deposition velocity for Pr-144	1.000E-03	1.000E-03	---	DEPVEL (31)
VDEP	Deposition velocity for Rb-88	1.000E-03	1.000E-03	---	DEPVEL (32)
VDEP	Deposition velocity for Rb-89	1.000E-03	1.000E-03	---	DEPVEL (33)
VDEP	Deposition velocity for Rh-103m	1.000E-03	1.000E-03	---	DEPVEL (34)
VDEP	Deposition velocity for Ru-103	1.000E-03	1.000E-03	---	DEPVEL (35)
VDEP	Deposition velocity for Sr-89	1.000E-03	1.000E-03	---	DEPVEL (37)
VDEP	Deposition velocity for Sr-90	1.000E-03	1.000E-03	---	DEPVEL (38)
VDEP	Deposition velocity for Sr-91	1.000E-03	1.000E-03	---	DEPVEL (39)
VDEP	Deposition velocity for Sr-92	1.000E-03	1.000E-03	---	DEPVEL (41)
VDEP	Deposition velocity for Tc-99	1.000E-03	1.000E-03	---	DEPVEL (42)
VDEP	Deposition velocity for Tc-99m	1.000E-03	1.000E-03	---	DEPVEL (43)
VDEP	Deposition velocity for Te-127	1.000E-03	1.000E-03	---	DEPVEL (44)
VDEP	Deposition velocity for Te-127m	1.000E-03	1.000E-03	---	DEPVEL (45)
VDEP	Deposition velocity for Te-129	1.000E-03	1.000E-03	---	DEPVEL (47)
VDEP	Deposition velocity for Te-129m	1.000E-03	1.000E-03	---	DEPVEL (48)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
VDEP	Deposition velocity for Te-132	1.000E-03	1.000E-03	---	DEPVEL (50)
VDEP	Deposition velocity for Te-134	1.000E-03	1.000E-03	---	DEPVEL (51)
VDEP	Deposition velocity for Y-90	1.000E-03	1.000E-03	---	DEPVEL (52)
VDEP	Deposition velocity for Y-91	1.000E-03	1.000E-03	---	DEPVEL (53)
VDEP	Deposition velocity for Y-91m	1.000E-03	1.000E-03	---	DEPVEL (54)
VDEP	Deposition velocity for Y-92	1.000E-03	1.000E-03	---	DEPVEL (55)
VDEP	Deposition velocity for Y-93	1.000E-03	1.000E-03	---	DEPVEL (56)
VDEP	Deposition velocity for Zr-93	1.000E-03	1.000E-03	---	DEPVEL (57)
VDEP	Deposition velocity for Zr-95	1.000E-03	1.000E-03	---	DEPVEL (58)
DCLR	Distribution coefficients for Ag-110m				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (1)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (1)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (1)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (1,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (1,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (1,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (1,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (1)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (1)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (1)
DCLR	Distribution coefficients for Ba-140				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	5.000E+01	---	DCNUCC (2)
DCLR	Saturated zone (cm**3/g)	0.000E+00	5.000E+01	---	DCNUCS (2)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	5.000E+01	---	DCNUCSWB (2)
DCLR	Agricultural area 1 (cm**3/g)	not used	5.000E+01	---	DCNUCOF (2,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	5.000E+01	---	DCNUCOF (2,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	5.000E+01	---	DCNUCOF (2,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	5.000E+01	---	DCNUCOF (2,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	5.000E+01	---	DCNUCDWE (2)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (2)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (2)
DCLR	Distribution coefficients for Br-84				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	4.900E+01	---	DCNUCC (3)
DCLR	Saturated zone (cm**3/g)	0.000E+00	4.900E+01	---	DCNUCS (3)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	4.900E+01	---	DCNUCSWB (3)
DCLR	Agricultural area 1 (cm**3/g)	not used	4.900E+01	---	DCNUCOF (3,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	4.900E+01	---	DCNUCOF (3,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	4.900E+01	---	DCNUCOF (3,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	4.900E+01	---	DCNUCOF (3,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	4.900E+01	---	DCNUCDWE (3)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (3)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (3)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Ce-141				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	1.000E+03	---	DCNUCC (4)
DCLR	Saturated zone (cm**3/g)	0.000E+00	1.000E+03	---	DCNUCS (4)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	1.000E+03	---	DCNUCSWB (4)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (4,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (4,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (4,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (4,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E+03	---	DCNUCDWE (4)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (4)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (4)
DCLR	Distribution coefficients for Ce-143				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	1.000E+03	---	DCNUCC (5)
DCLR	Saturated zone (cm**3/g)	0.000E+00	1.000E+03	---	DCNUCS (5)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	1.000E+03	---	DCNUCSWB (5)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (5,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (5,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (5,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (5,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E+03	---	DCNUCDWE (5)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (5)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (5)
DCLR	Distribution coefficients for Ce-144				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	1.000E+03	---	DCNUCC (6)
DCLR	Saturated zone (cm**3/g)	0.000E+00	1.000E+03	---	DCNUCS (6)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	1.000E+03	---	DCNUCSWB (6)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (6,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (6,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (6,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (6,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E+03	---	DCNUCDWE (6)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (6)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (6)
DCLR	Distribution coefficients for Co-58				
DCLR	Contaminated zone (cm**3/g)	9.850E+02	1.000E+03	---	DCNUCC (8)
DCLR	Saturated zone (cm**3/g)	9.850E+02	1.000E+03	---	DCNUCS (8)
DCLR	Sediment in surface water body (cm**3/g)	9.850E+02	1.000E+03	---	DCNUCSWB (8)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (8,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (8,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (8,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (8,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E+03	---	DCNUCDWE (8)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	7.887E-05	ALEACH (8)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (8)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Co-60				
DCLR	Contaminated zone (cm**3/g)	9.850E+02	1.000E+03	---	DCNUCC (9)
DCLR	Saturated zone (cm**3/g)	9.850E+02	1.000E+03	---	DCNUCS (9)
DCLR	Sediment in surface water body (cm**3/g)	9.850E+02	1.000E+03	---	DCNUCSWB (9)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (9,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (9,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (9,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (9,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E+03	---	DCNUCDWE (9)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	7.887E-05	ALEACH (9)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (9)
DCLR	Distribution coefficients for Cr-51				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	3.000E+01	---	DCNUCC (10)
DCLR	Saturated zone (cm**3/g)	0.000E+00	3.000E+01	---	DCNUCS (10)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	3.000E+01	---	DCNUCSWB (10)
DCLR	Agricultural area 1 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (10,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (10,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (10,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (10,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	3.000E+01	---	DCNUCDWE (10)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (10)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (10)
DCLR	Distribution coefficients for Cs-134				
DCLR	Contaminated zone (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCC (11)
DCLR	Saturated zone (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCS (11)
DCLR	Sediment in surface water body (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCSWB (11)
DCLR	Agricultural area 1 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (11,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (11,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (11,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (11,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	4.600E+03	---	DCNUCDWE (11)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	7.823E-05	ALEACH (11)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (11)
DCLR	Distribution coefficients for Cs-136				
DCLR	Contaminated zone (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCC (12)
DCLR	Saturated zone (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCS (12)
DCLR	Sediment in surface water body (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCSWB (12)
DCLR	Agricultural area 1 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (12,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (12,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (12,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (12,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	4.600E+03	---	DCNUCDWE (12)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	7.823E-05	ALEACH (12)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (12)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Cs-137				
DCLR	Contaminated zone (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCC (13)
DCLR	Saturated zone (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCS (13)
DCLR	Sediment in surface water body (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCSWB (13)
DCLR	Agricultural area 1 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (13,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (13,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (13,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (13,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	4.600E+03	---	DCNUCDWE (13)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	7.823E-05	ALEACH (13)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (13)
DCLR	Distribution coefficients for Cs-138				
DCLR	Contaminated zone (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCC (14)
DCLR	Saturated zone (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCS (14)
DCLR	Sediment in surface water body (cm**3/g)	9.930E+02	4.600E+03	---	DCNUCSWB (14)
DCLR	Agricultural area 1 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (14,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (14,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (14,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	4.600E+03	---	DCNUCOF (14,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	4.600E+03	---	DCNUCDWE (14)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	7.823E-05	ALEACH (14)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (14)
DCLR	Distribution coefficients for Fe-55				
DCLR	Contaminated zone (cm**3/g)	1.450E+03	1.000E+03	---	DCNUCC (15)
DCLR	Saturated zone (cm**3/g)	1.450E+03	1.000E+03	---	DCNUCS (15)
DCLR	Sediment in surface water body (cm**3/g)	1.450E+03	1.000E+03	---	DCNUCSWB (15)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (15,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (15,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (15,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (15,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E+03	---	DCNUCDWE (15)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	5.358E-05	ALEACH (15)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (15)
DCLR	Distribution coefficients for Fe-59				
DCLR	Contaminated zone (cm**3/g)	1.450E+03	1.000E+03	---	DCNUCC (16)
DCLR	Saturated zone (cm**3/g)	1.450E+03	1.000E+03	---	DCNUCS (16)
DCLR	Sediment in surface water body (cm**3/g)	1.450E+03	1.000E+03	---	DCNUCSWB (16)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (16,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (16,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (16,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E+03	---	DCNUCOF (16,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E+03	---	DCNUCDWE (16)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	5.358E-05	ALEACH (16)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (16)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for H-3				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (17)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (17)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (17)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (17,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (17,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (17,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (17,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (17)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (17)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (17)
DCLR	Distribution coefficients for I-129				
DCLR	Contaminated zone (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCC (18)
DCLR	Saturated zone (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCS (18)
DCLR	Sediment in surface water body (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCSWB (18)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (18,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (18,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (18,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (18,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E-01	---	DCNUCDWE (18)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	3.124E-01	ALEACH (18)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (18)
DCLR	Distribution coefficients for I-130				
DCLR	Contaminated zone (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCC (19)
DCLR	Saturated zone (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCS (19)
DCLR	Sediment in surface water body (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCSWB (19)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (19,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (19,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (19,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (19,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E-01	---	DCNUCDWE (19)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	3.124E-01	ALEACH (19)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (19)
DCLR	Distribution coefficients for I-132				
DCLR	Contaminated zone (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCC (20)
DCLR	Saturated zone (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCS (20)
DCLR	Sediment in surface water body (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCSWB (20)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (20,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (20,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (20,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (20,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E-01	---	DCNUCDWE (20)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	3.124E-01	ALEACH (20)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (20)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for I-134				
DCLR	Contaminated zone (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCC (21)
DCLR	Saturated zone (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCS (21)
DCLR	Sediment in surface water body (cm**3/g)	6.000E-02	1.000E-01	---	DCNUCSWB (21)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (21,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (21,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (21,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.000E-01	---	DCNUCOF (21,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.000E-01	---	DCNUCDWE (21)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	3.124E-01	ALEACH (21)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (21)
DCLR	Distribution coefficients for La-140				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	4.980E+00	---	DCNUCC (22)
DCLR	Saturated zone (cm**3/g)	0.000E+00	4.980E+00	---	DCNUCS (22)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	4.980E+00	---	DCNUCSWB (22)
DCLR	Agricultural area 1 (cm**3/g)	not used	4.980E+00	---	DCNUCOF (22,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	4.980E+00	---	DCNUCOF (22,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	4.980E+00	---	DCNUCOF (22,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	4.980E+00	---	DCNUCOF (22,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	4.980E+00	---	DCNUCDWE (22)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (22)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (22)
DCLR	Distribution coefficients for Mn-54				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	2.000E+02	---	DCNUCC (23)
DCLR	Saturated zone (cm**3/g)	0.000E+00	2.000E+02	---	DCNUCS (23)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	2.000E+02	---	DCNUCSWB (23)
DCLR	Agricultural area 1 (cm**3/g)	not used	2.000E+02	---	DCNUCOF (23,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	2.000E+02	---	DCNUCOF (23,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	2.000E+02	---	DCNUCOF (23,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	2.000E+02	---	DCNUCOF (23,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	2.000E+02	---	DCNUCDWE (23)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (23)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (23)
DCLR	Distribution coefficients for Mn-56				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	2.000E+02	---	DCNUCC (24)
DCLR	Saturated zone (cm**3/g)	0.000E+00	2.000E+02	---	DCNUCS (24)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	2.000E+02	---	DCNUCSWB (24)
DCLR	Agricultural area 1 (cm**3/g)	not used	2.000E+02	---	DCNUCOF (24,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	2.000E+02	---	DCNUCOF (24,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	2.000E+02	---	DCNUCOF (24,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	2.000E+02	---	DCNUCOF (24,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	2.000E+02	---	DCNUCDWE (24)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (24)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (24)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Mo-99				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	1.250E+02	---	DCNUCC (25)
DCLR	Saturated zone (cm**3/g)	0.000E+00	1.250E+02	---	DCNUCS (25)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	1.250E+02	---	DCNUCSWB (25)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (25,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (25,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (25,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (25,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.250E+02	---	DCNUCDWE (25)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (25)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (25)
DCLR	Distribution coefficients for Nb-95				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (28)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (28)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (28)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (28,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (28,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (28,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (28,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (28)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (28)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (28)
DCLR	Distribution coefficients for Pr-143				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	1.570E+02	---	DCNUCC (30)
DCLR	Saturated zone (cm**3/g)	0.000E+00	1.570E+02	---	DCNUCS (30)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	1.570E+02	---	DCNUCSWB (30)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.570E+02	---	DCNUCOF (30,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.570E+02	---	DCNUCOF (30,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.570E+02	---	DCNUCOF (30,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.570E+02	---	DCNUCOF (30,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.570E+02	---	DCNUCDWE (30)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (30)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (30)
DCLR	Distribution coefficients for Pr-144				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	1.570E+02	---	DCNUCC (31)
DCLR	Saturated zone (cm**3/g)	0.000E+00	1.570E+02	---	DCNUCS (31)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	1.570E+02	---	DCNUCSWB (31)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.570E+02	---	DCNUCOF (31,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.570E+02	---	DCNUCOF (31,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.570E+02	---	DCNUCOF (31,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.570E+02	---	DCNUCOF (31,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.570E+02	---	DCNUCDWE (31)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (31)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (31)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Rb-88				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	1.250E+02	---	DCNUCC (32)
DCLR	Saturated zone (cm**3/g)	0.000E+00	1.250E+02	---	DCNUCS (32)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	1.250E+02	---	DCNUCSWB (32)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (32,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (32,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (32,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (32,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.250E+02	---	DCNUCDWE (32)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (32)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (32)
DCLR	Distribution coefficients for Rb-89				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	1.250E+02	---	DCNUCC (33)
DCLR	Saturated zone (cm**3/g)	0.000E+00	1.250E+02	---	DCNUCS (33)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	1.250E+02	---	DCNUCSWB (33)
DCLR	Agricultural area 1 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (33,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (33,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (33,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	1.250E+02	---	DCNUCOF (33,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	1.250E+02	---	DCNUCDWE (33)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (33)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (33)
DCLR	Distribution coefficients for Rh-103m				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	4.000E+00	---	DCNUCC (34)
DCLR	Saturated zone (cm**3/g)	0.000E+00	4.000E+00	---	DCNUCS (34)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	4.000E+00	---	DCNUCSWB (34)
DCLR	Agricultural area 1 (cm**3/g)	not used	4.000E+00	---	DCNUCOF (34,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	4.000E+00	---	DCNUCOF (34,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	4.000E+00	---	DCNUCOF (34,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	4.000E+00	---	DCNUCOF (34,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	4.000E+00	---	DCNUCDWE (34)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (34)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (34)
DCLR	Distribution coefficients for Ru-103				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (35)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (35)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (35)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (35,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (35,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (35,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (35,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (35)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (35)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (35)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Sr-89				
DCLR	Contaminated zone (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCC (37)
DCLR	Saturated zone (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCS (37)
DCLR	Sediment in surface water body (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCSWB (37)
DCLR	Agricultural area 1 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (37,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (37,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (37,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (37,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	3.000E+01	---	DCNUCDWE (37)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	1.210E-03	ALEACH (37)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (37)
DCLR	Distribution coefficients for Sr-90				
DCLR	Contaminated zone (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCC (38)
DCLR	Saturated zone (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCS (38)
DCLR	Sediment in surface water body (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCSWB (38)
DCLR	Agricultural area 1 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (38,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (38,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (38,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (38,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	3.000E+01	---	DCNUCDWE (38)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	1.210E-03	ALEACH (38)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (38)
DCLR	Distribution coefficients for Sr-91				
DCLR	Contaminated zone (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCC (39)
DCLR	Saturated zone (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCS (39)
DCLR	Sediment in surface water body (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCSWB (39)
DCLR	Agricultural area 1 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (39,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (39,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (39,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (39,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	3.000E+01	---	DCNUCDWE (39)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	1.210E-03	ALEACH (39)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (39)
DCLR	Distribution coefficients for Sr-92				
DCLR	Contaminated zone (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCC (41)
DCLR	Saturated zone (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCS (41)
DCLR	Sediment in surface water body (cm**3/g)	6.400E+01	3.000E+01	---	DCNUCSWB (41)
DCLR	Agricultural area 1 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (41,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (41,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (41,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	3.000E+01	---	DCNUCOF (41,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	3.000E+01	---	DCNUCDWE (41)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	1.210E-03	ALEACH (41)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (41)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Tc-99m				
DCLR	Contaminated zone (cm**3/g)	3.000E-02	0.000E+00	---	DCNUCC (43)
DCLR	Saturated zone (cm**3/g)	3.000E-02	0.000E+00	---	DCNUCS (43)
DCLR	Sediment in surface water body (cm**3/g)	3.000E-02	0.000E+00	---	DCNUCSWB (43)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (43,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (43,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (43,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (43,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (43)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	3.553E-01	ALEACH (43)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (43)
DCLR	Distribution coefficients for Te-127m				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (45)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (45)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (45)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (45,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (45,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (45,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (45,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (45)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (45)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (45)
DCLR	Distribution coefficients for Te-129				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (47)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (47)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (47)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (47,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (47,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (47,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (47,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (47)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (47)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (47)
DCLR	Distribution coefficients for Te-129m				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (48)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (48)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (48)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (48,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (48,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (48,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (48,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (48)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (48)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (48)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Te-132				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (50)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (50)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (50)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (50,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (50,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (50,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (50,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (50)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (50)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (50)
DCLR	Distribution coefficients for Te-134				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (51)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (51)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (51)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (51,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (51,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (51,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (51,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (51)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (51)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (51)
DCLR	Distribution coefficients for Y-90				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCC (52)
DCLR	Saturated zone (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCS (52)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCSWB (52)
DCLR	Agricultural area 1 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (52,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (52,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (52,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (52,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	7.200E+02	---	DCNUCDWE (52)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (52)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (52)
DCLR	Distribution coefficients for Y-91				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCC (53)
DCLR	Saturated zone (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCS (53)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCSWB (53)
DCLR	Agricultural area 1 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (53,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (53,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (53,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (53,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	7.200E+02	---	DCNUCDWE (53)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (53)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (53)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Y-91m				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCC (54)
DCLR	Saturated zone (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCS (54)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCSWB (54)
DCLR	Agricultural area 1 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (54,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (54,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (54,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (54,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	7.200E+02	---	DCNUCDWE (54)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (54)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (54)
DCLR	Distribution coefficients for Y-92				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCC (55)
DCLR	Saturated zone (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCS (55)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCSWB (55)
DCLR	Agricultural area 1 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (55,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (55,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (55,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (55,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	7.200E+02	---	DCNUCDWE (55)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (55)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (55)
DCLR	Distribution coefficients for Y-93				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCC (56)
DCLR	Saturated zone (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCS (56)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	7.200E+02	---	DCNUCSWB (56)
DCLR	Agricultural area 1 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (56,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (56,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (56,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	7.200E+02	---	DCNUCOF (56,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	7.200E+02	---	DCNUCDWE (56)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (56)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (56)
DCLR	Distribution coefficients for Zr-95				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	2.200E+03	---	DCNUCC (58)
DCLR	Saturated zone (cm**3/g)	0.000E+00	2.200E+03	---	DCNUCS (58)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	2.200E+03	---	DCNUCSWB (58)
DCLR	Agricultural area 1 (cm**3/g)	not used	2.200E+03	---	DCNUCOF (58,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	2.200E+03	---	DCNUCOF (58,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	2.200E+03	---	DCNUCOF (58,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	2.200E+03	---	DCNUCOF (58,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	2.200E+03	---	DCNUCDWE (58)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (58)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (58)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for progeny Nb-93m				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (27)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (27)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (27)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (27,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (27,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (27,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (27,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (27)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (27)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (27)
DCLR	Distribution coefficients for progeny Nb-95m				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (29)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (29)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (29)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (29,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (29,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (29,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (29,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (29)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (29)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (29)
DCLR	Distribution coefficients for progeny Tc-99				
DCLR	Contaminated zone (cm**3/g)	3.000E-02	0.000E+00	---	DCNUCC (42)
DCLR	Saturated zone (cm**3/g)	3.000E-02	0.000E+00	---	DCNUCS (42)
DCLR	Sediment in surface water body (cm**3/g)	3.000E-02	0.000E+00	---	DCNUCSWB (42)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (42,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (42,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (42,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (42,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (42)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	3.553E-01	ALEACH (42)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (42)
DCLR	Distribution coefficients for progeny Te-127				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (44)
DCLR	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (44)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCSWB (44)
DCLR	Agricultural area 1 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (44,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (44,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (44,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	0.000E+00	---	DCNUCOF (44,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	0.000E+00	---	DCNUCDWE (44)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (44)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (44)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for progeny Zr-93				
DCLR	Contaminated zone (cm**3/g)	0.000E+00	2.200E+03	---	DCNUCC (57)
DCLR	Saturated zone (cm**3/g)	0.000E+00	2.200E+03	---	DCNUCS (57)
DCLR	Sediment in surface water body (cm**3/g)	0.000E+00	2.200E+03	---	DCNUCSWB (57)
DCLR	Agricultural area 1 (cm**3/g)	not used	2.200E+03	---	DCNUCOF (57,1)
DCLR	Agricultural area 2 (cm**3/g)	not used	2.200E+03	---	DCNUCOF (57,2)
DCLR	Agricultural area 3 (cm**3/g)	not used	2.200E+03	---	DCNUCOF (57,3)
DCLR	Agricultural area 4 (cm**3/g)	not used	2.200E+03	---	DCNUCOF (57,4)
DCLR	Offsite Dwelling (cm**3/g)	not used	2.200E+03	---	DCNUCDWE (57)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	4.118E-01	ALEACH (57)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0 (57)
LYOT	Bearing of X axis (clockwise angle N-->X in degrees)	8.530E+01	9.000E+01	---	DNXBearing
LYOT	Length of Primary contamination in X Direction	6.510E+00	1.000E+02	---	SOURCEXY (1)
LYOT	Length of Primary contamination in Y Direction	6.510E+00	1.000E+02	---	SOURCEXY (2)
LYOT	Smaller X coordinate of Agricultural Area 1	not used	3.438E+01	---	AGRIX (1,1)
LYOT	Larger X coordinate of Agricultural Area 1	not used	6.563E+01	---	AGRIX (2,1)
LYOT	Smaller Y coordinate of Agricultural Area 1	not used	2.340E+02	---	AGRIX (3,1)
LYOT	Larger Y coordinate of Agricultural Area 1	not used	2.660E+02	---	AGRIX (4,1)
LYOT	Smaller X coordinate of Agricultural Area 2	not used	3.438E+01	---	AGRIX (1,2)
LYOT	Larger X coordinate of Agricultural Area 2	not used	6.563E+01	---	AGRIX (2,2)
LYOT	Smaller Y coordinate of Agricultural Area 2	not used	2.680E+02	---	AGRIX (3,2)
LYOT	Larger Y coordinate of Agricultural Area 2	not used	3.000E+02	---	AGRIX (4,2)
LYOT	Smaller X coordinate of Agricultural Area 3	not used	0.000E+00	---	AGRIX (1,3)
LYOT	Larger X coordinate of Agricultural Area 3	not used	1.000E+02	---	AGRIX (2,3)
LYOT	Smaller Y coordinate of Agricultural Area 3	not used	4.500E+02	---	AGRIX (3,3)
LYOT	Larger Y coordinate of Agricultural Area 3	not used	5.500E+02	---	AGRIX (4,3)
LYOT	Smaller X coordinate of Agricultural Area 4	not used	0.000E+00	---	AGRIX (1,4)
LYOT	Larger X coordinate of Agricultural Area 4	not used	1.000E+02	---	AGRIX (2,4)
LYOT	Smaller Y coordinate of Agricultural Area 4	not used	3.000E+02	---	AGRIX (3,4)
LYOT	Larger Y coordinate of Agricultural Area 4	not used	4.000E+02	---	AGRIX (4,4)
LYOT	Smaller X coordinate of Dwelling Area	not used	3.438E+01	---	DWELLXY (1)
LYOT	Larger X coordinate of Dwelling Area	not used	6.563E+01	---	DWELLXY (2)
LYOT	Smaller Y coordinate of Dwelling Area	not used	1.340E+02	---	DWELLXY (3)
LYOT	Larger Y coordinate of Dwelling Area	not used	1.660E+02	---	DWELLXY (4)
LYOT	Smaller X coordinate of Surface water body	-1.500E+02	-1.000E+02	---	SWXY (1)
LYOT	Larger X coordinate of Surface water body	1.500E+02	2.000E+02	---	SWXY (2)
LYOT	Smaller Y coordinate of Surface water body	5.898E+02	5.500E+02	---	SWXY (3)
LYOT	Larger Y coordinate of Surface water body	8.898E+02	8.500E+02	---	SWXY (4)
STOR	Storage times of contaminated foodstuffs (days):				
STOR	Surface water	0.000E+00	1.000E+00	---	STOR_T (1)
STOR	Well water	0.000E+00	1.000E+00	---	STOR_T (2)
STOR	Fruits, non-leafy vegetables, and grain	0.000E+00	1.400E+01	---	STOR_T (3)
STOR	Leafy vegetables	0.000E+00	1.000E+00	---	STOR_T (4)
STOR	Livestock feed - pasture or silage	0.000E+00	1.000E+00	---	STOR_T (5)
STOR	Livestock feed - grain	0.000E+00	4.500E+01	---	STOR_T (6)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
STOR	Meat and poultry	0.000E+00	2.000E+01	---	STOR_T(7)
STOR	Milk	0.000E+00	1.000E+00	---	STOR_T(8)
STOR	Fish	0.000E+00	7.000E+00	---	STOR_T(9)
STOR	Crustacea and mollusks	0.000E+00	7.000E+00	---	STOR_T(10)
TIME	Times at which dose/risk are to be reported (yr)	1.000E+00	1.000E+00	---	T(2)
TIME	Times at which dose/risk are to be reported (yr)	3.000E+00	3.000E+00	---	T(3)
TIME	Times at which dose/risk are to be reported (yr)	1.000E+01	6.000E+00	---	T(4)
TIME	Times at which dose/risk are to be reported (yr)	3.000E+01	1.200E+01	---	T(5)
TIME	Times at which dose/risk are to be reported (yr)	5.000E+01	3.000E+01	---	T(6)
TIME	Times at which dose/risk are to be reported (yr)	1.000E+02	7.500E+01	---	T(7)
TIME	Times at which dose/risk are to be reported (yr)	3.000E+02	1.750E+02	---	T(8)
TIME	Times at which dose/risk are to be reported (yr)	1.000E+03	4.200E+02	---	T(9)
TIME	Times at which dose/risk are to be reported (yr)	not used	9.700E+02	---	T(10)
SITE	Precipitation (m/yr)	1.230E+00	1.000E+00	---	PRECIP
SITE	Average annual wind speed (m/sec)	2.240E+00	2.000E+00	---	WIND
PRCZ	Area of primary contamination (m**2)	4.238E+01	1.000E+04	---	AREA
PRCZ	Length parallel to aquifer flow (m)	6.510E+00	1.000E+02	---	LCZPAQ
PRCZ	Depth of soil mixing layer (m)	0.000E+00	1.500E-01	---	DM
PRCZ	Deposition velocity of dust (m)	1.000E-03	1.000E-03	---	DEPVEL_DUST
PRCZ	Irrigation (m/yr)	2.000E-01	2.000E-01	---	RI
PRCZ	Evapotranspiration coefficient	7.400E-01	5.000E-01	---	EVAPTR
PRCZ	Runoff coefficient	3.900E-01	2.000E-01	---	RUNOFF
PRCZ	Rainfall Erosion Index	2.500E+02	1.600E+02	---	RAINEROS
PRCZ	Slope-length-steepness factor of prim. contamination	4.000E-01	4.000E-01	---	SLPLENSTPPC
PRCZ	Cropping-management factor of primary contamination	3.000E-03	3.000E-03	---	CRPMANGPC
PRCZ	Conservation practice factor of prim. contamination	1.000E+00	1.000E+00	---	CONVPRACPC
PRCZ	Thickness of contaminated zone (m)	2.000E+00	2.000E+00	---	THICK0
PRCZ	Contaminated zone total porosity	8.000E-02	4.000E-01	---	TPCZ
PRCZ	Computed erosion rate of contaminated zone (m/yr)	1.691E-05	1.147E-05	---	VCZ
PRCZ	Density of contaminated zone (g/cm**3)	1.590E+00	1.500E+00	---	DENSCZ
PRCZ	Soil erodibility factor of contaminated zone	4.000E-01	4.000E-01	---	ERODIBILITYCZ
PRCZ	Contaminated zone field capacity	3.000E-01	3.000E-01	---	FCCZ
PRCZ	Contaminated zone b parameter	5.300E+00	5.300E+00	---	BCZ
PRCZ	Contaminated zone hydraulic conductivity (m/yr)	4.418E+02	1.000E+01	---	HCCZ
PRCZ	Cover depth (m)	1.021E+01	0.000E+00	---	COVER0
PRCZ	Total porosity of the cover material	not used	4.000E-01	---	TPCV
PRCZ	Computed erosion rate of cover material (m/yr)	1.691E-05	1.147E-05	---	VCV
PRCZ	Density of cover material (g/cm**3)	1.590E+00	1.500E+00	---	DENSCV
PRCZ	Soil erodibility factor of cover	4.000E-01	4.000E-01	---	ERODIBILITYCV
PRCZ	Volumetric water content of the cover material	not used	5.000E-02	---	PH2OCV
AGRI	Areal extent of Agricultural Area 1 (m**2)	not used	1.000E+03	---	AREAO(1)
AGRI	Fraction of Agri. Area 1 directly over the c.z.	not used	0.000E+00	---	FAREA_PLANT(1)
AGRI	Evapotranspiration coefficient in Agri. Area 1	not used	5.000E-01	---	EVAPTRN(1)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AGRI	Runoff coefficient in Agricultural Area 1	not used	2.000E-01	---	RUNOF(1)
AGRI	Mixing depth/plow layer of Agricultural Area 1	not used	1.500E-01	---	DPTHMIXG(1)
AGRI	Water filled porosity of soil in Agri. Area 1	not used	3.000E-01	---	TMOF(1)
AGRI	Computed erosion rate of soil in Agri. Are1	not used	1.147E-05	---	EROSN(1)
AGRI	Dry Bulk Density of soil in Agricultural Area 1	not used	1.500E+00	---	RHOB(1)
AGRI	Soil erodibility factor of Agricultural Area 1	not used	4.000E-01	---	ERODIBILITY(1)
AGRI	Slope-length-steepness factor, Agricultural Area 1	not used	4.000E-01	---	SLPLENSTP(1)
AGRI	Cropping-management factor of Agricultural Area 1	not used	3.000E-03	---	CRPMANG(1)
AGRI	Conservation practice factor of Agricultural Area 1	not used	1.000E+00	---	CONVPRAC(1)
AGRI	Areal extent of Agricultural Area 2 (m**2)	not used	1.000E+03	---	AREAO(2)
AGRI	Fraction of Agri. Area 2 directly over the c.z.	not used	0.000E+00	---	FAREA_PLANT(2)
AGRI	Evapotranspiration coefficient in Agri. Area 2	not used	5.000E-01	---	EVAPTRN(2)
AGRI	Runoff coefficient in Agricultural Area 2	not used	2.000E-01	---	RUNOF(2)
AGRI	Mixing depth/plow layer of Agricultural Area 2	not used	1.500E-01	---	DPTHMIXG(2)
AGRI	Water filled porosity of soil in Agri. Area 2	not used	3.000E-01	---	TMOF(2)
AGRI	Computed erosion rate of soil in Agri. Are2	not used	1.147E-05	---	EROSN(2)
AGRI	Dry Bulk Density of soil in Agricultural Area 2	not used	1.500E+00	---	RHOB(2)
AGRI	Soil erodibility factor of Agricultural Area 2	not used	4.000E-01	---	ERODIBILITY(2)
AGRI	Slope-length-steepness factor, Agricultural Area 2	not used	4.000E-01	---	SLPLENSTP(2)
AGRI	Cropping-management factor of Agricultural Area 2	not used	3.000E-03	---	CRPMANG(2)
AGRI	Conservation practice factor of Agricultural Area 2	not used	1.000E+00	---	CONVPRAC(2)
AGRI	Areal extent of Agricultural Area 3 (m**2)	not used	1.000E+04	---	AREAO(3)
AGRI	Fraction of Agri. Area 3 directly over the c.z.	not used	0.000E+00	---	FAREA_PLANT(3)
AGRI	Evapotranspiration coefficient in Agri. Area 3	not used	5.000E-01	---	EVAPTRN(3)
AGRI	Runoff coefficient in Agricultural Area 3	not used	2.000E-01	---	RUNOF(3)
AGRI	Mixing depth/plow layer of Agricultural Area 3	not used	1.500E-01	---	DPTHMIXG(3)
AGRI	Water filled porosity of soil in Agri. Area 3	not used	3.000E-01	---	TMOF(3)
AGRI	Computed erosion rate of soil in Agri. Are3	not used	1.147E-05	---	EROSN(3)
AGRI	Dry Bulk Density of soil in Agricultural Area 3	not used	1.500E+00	---	RHOB(3)
AGRI	Soil erodibility factor of Agricultural Area 3	not used	4.000E-01	---	ERODIBILITY(3)
AGRI	Slope-length-steepness factor, Agricultural Area 3	not used	4.000E-01	---	SLPLENSTP(3)
AGRI	Cropping-management factor of Agricultural Area 3	not used	3.000E-03	---	CRPMANG(3)
AGRI	Conservation practice factor of Agricultural Area 3	not used	1.000E+00	---	CONVPRAC(3)
AGRI	Areal extent of Agricultural Area 4 (m**2)	not used	1.000E+04	---	AREAO(4)
AGRI	Fraction of Agri. Area 4 directly over the c.z.	not used	0.000E+00	---	FAREA_PLANT(4)
AGRI	Evapotranspiration coefficient in Agri. Area 4	not used	5.000E-01	---	EVAPTRN(4)
AGRI	Runoff coefficient in Agricultural Area 4	not used	2.000E-01	---	RUNOF(4)
AGRI	Mixing depth/plow layer of Agricultural Area 4	not used	1.500E-01	---	DPTHMIXG(4)
AGRI	Water filled porosity of soil in Agri. Area 4	not used	3.000E-01	---	TMOF(4)
AGRI	Computed erosion rate of soil in Agri. Are4	not used	1.147E-05	---	EROSN(4)
AGRI	Dry Bulk Density of soil in Agricultural Area 4	not used	1.500E+00	---	RHOB(4)
AGRI	Soil erodibility factor of Agricultural Area 4	not used	4.000E-01	---	ERODIBILITY(4)
AGRI	Slope-length-steepness factor, Agricultural Area 4	not used	4.000E-01	---	SLPLENSTP(4)
AGRI	Cropping-management factor of Agricultural Area 4	not used	3.000E-03	---	CRPMANG(4)
AGRI	Conservation practice factor of Agricultural Area 4	not used	1.000E+00	---	CONVPRAC(4)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DWEL	Areal extent of Offsite dwelling site (m**2)	not used	1.000E+03	---	AREAODWELL
DWEL	Evapotranspiration coefficient in dwelling (Off) site	not used	5.000E-01	---	EVAPTRNDWELL
DWEL	Runoff coefficient in Offsite dwelling site	not used	2.000E-01	---	RUNOFDWELL
DWEL	Mixing depth of Offsite dwelling site	not used	1.500E-01	---	DPTHMIXGDWELL
DWEL	Water filled porosity of soil in Offsite Dwelling	not used	3.000E-01	---	TMOFDWELL
DWEL	Computed erosion rate of soil in Offsite Dwelling	not used	0.000E+00	---	EROSNDWELL
DWEL	Dry Bulk Density of soil in Offsite dwelling site	not used	1.500E+00	---	RHOBWDWELL
DWEL	Soil erodibility factor of soil in Dwelling site	not used	0.000E+00	---	ERODIBILITYDWELL
DWEL	Slope-length-steepness factor of Dwelling site	not used	4.000E-01	---	SLPLENSTPDWELL
DWEL	Cropping-management factor of Dwelling site	not used	3.000E-03	---	CRPMANGDWELL
DWEL	Conservation practice factor of Offsite Dwelling sit	not used	1.000E+00	---	CONVPRACDWELL
AIRT	Dispersion Coefficients; 1 = Pasquill-Gifford	1	1	---	IDISPMOD
AIRT	Population zone; 1 = Rural	1	1	---	IZONE
AIRT	Release height, (m)	1.000E-01	1.000E+00	---	AIRRELHT
AIRT	Heat flux for buoyant plume (cal/s),	0.000E+00	0.000E+00	---	HEATFLX
AIRT	Anemometer height, (m)	1.000E+01	1.000E+01	---	ANH
AIRT	Absolute temperature (Kelvin)	2.850E+02	2.850E+02	---	TABK
AIRT	AM atmospheric mixing height (m)	4.000E+02	4.000E+02	---	AMIX
AIRT	PM atmospheric mixing height (m)	1.600E+03	1.600E+03	---	PMIX
AIRT	Elevation of Agricultural Area 1 above primary cont.	not used	0.000E+00	---	AGRIELEV(1)
AIRT	Elevation of Agricultural Area 2 above primary cont.	not used	0.000E+00	---	AGRIELEV(2)
AIRT	Elevation of Agricultural Area 3 above primary cont.	not used	0.000E+00	---	AGRIELEV(3)
AIRT	Elevation of Agricultural Area 4 above primary cont.	not used	0.000E+00	---	AGRIELEV(4)
AIRT	Elevation of Dwelling Site relative to primary cont.	not used	0.000E+00	---	DWELLELEV
AIRT	Elevation of Surf.Wtr body relative to primary cont.	2.600E+01	0.000E+00	---	SWELEV
AIRT	Joint frequency Meteorological data:				
AIRT	Upper limit for windspeed class 1 (m/s)	8.900E-01	8.900E-01	---	WINDSPEED(1)
AIRT	Upper limit for windspeed class 2 (m/s)	2.460E+00	2.460E+00	---	WINDSPEED(2)
AIRT	Upper limit for windspeed class 3 (m/s)	4.470E+00	4.470E+00	---	WINDSPEED(3)
AIRT	Upper limit for windspeed class 4 (m/s)	6.930E+00	6.930E+00	---	WINDSPEED(4)
AIRT	Upper limit for windspeed class 5 (m/s)	9.610E+00	9.610E+00	---	WINDSPEED(5)
AIRT	Upper limit for windspeed class 6 (m/s)	1.252E+01	1.252E+01	---	WINDSPEED(6)
AIRT	Joint Frequency in N Sector				
AIRT	for wind speed class 1 and stability class A	2.700E-04	1.000E+00	---	DFREQ(1,1,1)
AIRT	for wind speed class 1 and stability class B	2.120E-03	0.000E+00	---	DFREQ(1,2,1)
AIRT	for wind speed class 1 and stability class C	9.600E-04	0.000E+00	---	DFREQ(1,3,1)
AIRT	for wind speed class 1 and stability class D	2.180E-03	0.000E+00	---	DFREQ(1,4,1)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,1)
AIRT	for wind speed class 1 and stability class F	4.400E-03	0.000E+00	---	DFREQ(1,6,1)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in N Sector				
AIRT	for wind speed class 2 and stability class A	2.600E-04	0.000E+00	---	DFREQ(2,1,1)
AIRT	for wind speed class 2 and stability class B	1.850E-03	0.000E+00	---	DFREQ(2,2,1)
AIRT	for wind speed class 2 and stability class C	2.120E-03	0.000E+00	---	DFREQ(2,3,1)
AIRT	for wind speed class 2 and stability class D	5.050E-03	0.000E+00	---	DFREQ(2,4,1)
AIRT	for wind speed class 2 and stability class E	6.580E-03	0.000E+00	---	DFREQ(2,5,1)
AIRT	for wind speed class 2 and stability class F	5.360E-03	0.000E+00	---	DFREQ(2,6,1)
AIRT	Joint Frequency in N Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,1)
AIRT	for wind speed class 3 and stability class B	1.180E-03	0.000E+00	---	DFREQ(3,2,1)
AIRT	for wind speed class 3 and stability class C	3.610E-03	0.000E+00	---	DFREQ(3,3,1)
AIRT	for wind speed class 3 and stability class D	8.890E-03	0.000E+00	---	DFREQ(3,4,1)
AIRT	for wind speed class 3 and stability class E	2.470E-03	0.000E+00	---	DFREQ(3,5,1)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,1)
AIRT	Joint Frequency in N Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,1)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,1)
AIRT	for wind speed class 4 and stability class C	5.500E-04	0.000E+00	---	DFREQ(4,3,1)
AIRT	for wind speed class 4 and stability class D	6.760E-03	0.000E+00	---	DFREQ(4,4,1)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,1)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,1)
AIRT	Joint Frequency in N Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,1)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,1)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,1)
AIRT	for wind speed class 5 and stability class D	4.800E-04	0.000E+00	---	DFREQ(5,4,1)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,1)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,1)
AIRT	Joint Frequency in N Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,1)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,1)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,1)
AIRT	for wind speed class 6 and stability class D	5.000E-05	0.000E+00	---	DFREQ(6,4,1)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,1)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,1)
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 1 and stability class A	1.400E-04	0.000E+00	---	DFREQ(1,1,2)
AIRT	for wind speed class 1 and stability class B	1.530E-03	0.000E+00	---	DFREQ(1,2,2)
AIRT	for wind speed class 1 and stability class C	8.700E-04	0.000E+00	---	DFREQ(1,3,2)
AIRT	for wind speed class 1 and stability class D	1.190E-03	0.000E+00	---	DFREQ(1,4,2)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,2)
AIRT	for wind speed class 1 and stability class F	4.580E-03	0.000E+00	---	DFREQ(1,6,2)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 2 and stability class A	2.200E-04	0.000E+00	---	DFREQ(2,1,2)
AIRT	for wind speed class 2 and stability class B	1.680E-03	0.000E+00	---	DFREQ(2,2,2)
AIRT	for wind speed class 2 and stability class C	1.920E-03	0.000E+00	---	DFREQ(2,3,2)
AIRT	for wind speed class 2 and stability class D	4.400E-03	0.000E+00	---	DFREQ(2,4,2)
AIRT	for wind speed class 2 and stability class E	5.570E-03	0.000E+00	---	DFREQ(2,5,2)
AIRT	for wind speed class 2 and stability class F	6.400E-03	0.000E+00	---	DFREQ(2,6,2)
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,2)
AIRT	for wind speed class 3 and stability class B	8.700E-04	0.000E+00	---	DFREQ(3,2,2)
AIRT	for wind speed class 3 and stability class C	3.250E-03	0.000E+00	---	DFREQ(3,3,2)
AIRT	for wind speed class 3 and stability class D	1.063E-02	0.000E+00	---	DFREQ(3,4,2)
AIRT	for wind speed class 3 and stability class E	3.000E-03	0.000E+00	---	DFREQ(3,5,2)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,2)
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,2)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,2)
AIRT	for wind speed class 4 and stability class C	5.800E-04	0.000E+00	---	DFREQ(4,3,2)
AIRT	for wind speed class 4 and stability class D	7.230E-03	0.000E+00	---	DFREQ(4,4,2)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,2)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,2)
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,2)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,2)
AIRT	for wind speed class 5 and stability class C	5.000E-05	0.000E+00	---	DFREQ(5,3,2)
AIRT	for wind speed class 5 and stability class D	9.100E-04	0.000E+00	---	DFREQ(5,4,2)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,2)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,2)
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,2)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,2)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,2)
AIRT	for wind speed class 6 and stability class D	1.900E-04	0.000E+00	---	DFREQ(6,4,2)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,2)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,2)
AIRT	Joint Frequency in NE Sector				
AIRT	for wind speed class 1 and stability class A	2.600E-04	0.000E+00	---	DFREQ(1,1,3)
AIRT	for wind speed class 1 and stability class B	1.740E-03	0.000E+00	---	DFREQ(1,2,3)
AIRT	for wind speed class 1 and stability class C	1.300E-03	0.000E+00	---	DFREQ(1,3,3)
AIRT	for wind speed class 1 and stability class D	1.940E-03	0.000E+00	---	DFREQ(1,4,3)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,3)
AIRT	for wind speed class 1 and stability class F	7.510E-03	0.000E+00	---	DFREQ(1,6,3)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in NE Sector				
AIRT	for wind speed class 2 and stability class A	3.100E-04	0.000E+00	---	DFREQ(2,1,3)
AIRT	for wind speed class 2 and stability class B	2.360E-03	0.000E+00	---	DFREQ(2,2,3)
AIRT	for wind speed class 2 and stability class C	3.630E-03	0.000E+00	---	DFREQ(2,3,3)
AIRT	for wind speed class 2 and stability class D	6.470E-03	0.000E+00	---	DFREQ(2,4,3)
AIRT	for wind speed class 2 and stability class E	8.840E-03	0.000E+00	---	DFREQ(2,5,3)
AIRT	for wind speed class 2 and stability class F	1.385E-02	0.000E+00	---	DFREQ(2,6,3)
AIRT	Joint Frequency in NE Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,3)
AIRT	for wind speed class 3 and stability class B	1.560E-03	0.000E+00	---	DFREQ(3,2,3)
AIRT	for wind speed class 3 and stability class C	6.640E-03	0.000E+00	---	DFREQ(3,3,3)
AIRT	for wind speed class 3 and stability class D	1.456E-02	0.000E+00	---	DFREQ(3,4,3)
AIRT	for wind speed class 3 and stability class E	6.040E-03	0.000E+00	---	DFREQ(3,5,3)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,3)
AIRT	Joint Frequency in NE Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,3)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,3)
AIRT	for wind speed class 4 and stability class C	1.400E-03	0.000E+00	---	DFREQ(4,3,3)
AIRT	for wind speed class 4 and stability class D	1.134E-02	0.000E+00	---	DFREQ(4,4,3)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,3)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,3)
AIRT	Joint Frequency in NE Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,3)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,3)
AIRT	for wind speed class 5 and stability class C	9.000E-05	0.000E+00	---	DFREQ(5,3,3)
AIRT	for wind speed class 5 and stability class D	1.490E-03	0.000E+00	---	DFREQ(5,4,3)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,3)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,3)
AIRT	Joint Frequency in NE Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,3)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,3)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,3)
AIRT	for wind speed class 6 and stability class D	1.400E-04	0.000E+00	---	DFREQ(6,4,3)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,3)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,3)
AIRT	Joint Frequency in ENE Sector				
AIRT	for wind speed class 1 and stability class A	2.400E-04	0.000E+00	---	DFREQ(1,1,4)
AIRT	for wind speed class 1 and stability class B	1.800E-03	0.000E+00	---	DFREQ(1,2,4)
AIRT	for wind speed class 1 and stability class C	1.140E-03	0.000E+00	---	DFREQ(1,3,4)
AIRT	for wind speed class 1 and stability class D	1.510E-03	0.000E+00	---	DFREQ(1,4,4)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,4)
AIRT	for wind speed class 1 and stability class F	8.600E-03	0.000E+00	---	DFREQ(1,6,4)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in ENE Sector				
AIRT	for wind speed class 2 and stability class A	4.300E-04	0.000E+00	---	DFREQ(2,1,4)
AIRT	for wind speed class 2 and stability class B	2.070E-03	0.000E+00	---	DFREQ(2,2,4)
AIRT	for wind speed class 2 and stability class C	3.490E-03	0.000E+00	---	DFREQ(2,3,4)
AIRT	for wind speed class 2 and stability class D	4.780E-03	0.000E+00	---	DFREQ(2,4,4)
AIRT	for wind speed class 2 and stability class E	6.630E-03	0.000E+00	---	DFREQ(2,5,4)
AIRT	for wind speed class 2 and stability class F	1.399E-02	0.000E+00	---	DFREQ(2,6,4)
AIRT	Joint Frequency in ENE Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,4)
AIRT	for wind speed class 3 and stability class B	1.610E-03	0.000E+00	---	DFREQ(3,2,4)
AIRT	for wind speed class 3 and stability class C	6.110E-03	0.000E+00	---	DFREQ(3,3,4)
AIRT	for wind speed class 3 and stability class D	9.950E-03	0.000E+00	---	DFREQ(3,4,4)
AIRT	for wind speed class 3 and stability class E	6.340E-03	0.000E+00	---	DFREQ(3,5,4)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,4)
AIRT	Joint Frequency in ENE Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,4)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,4)
AIRT	for wind speed class 4 and stability class C	1.340E-03	0.000E+00	---	DFREQ(4,3,4)
AIRT	for wind speed class 4 and stability class D	1.118E-02	0.000E+00	---	DFREQ(4,4,4)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,4)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,4)
AIRT	Joint Frequency in ENE Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,4)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,4)
AIRT	for wind speed class 5 and stability class C	1.700E-04	0.000E+00	---	DFREQ(5,3,4)
AIRT	for wind speed class 5 and stability class D	1.930E-03	0.000E+00	---	DFREQ(5,4,4)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,4)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,4)
AIRT	Joint Frequency in ENE Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,4)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,4)
AIRT	for wind speed class 6 and stability class C	3.000E-05	0.000E+00	---	DFREQ(6,3,4)
AIRT	for wind speed class 6 and stability class D	5.000E-04	0.000E+00	---	DFREQ(6,4,4)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,4)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,4)
AIRT	Joint Frequency in E Sector				
AIRT	for wind speed class 1 and stability class A	2.000E-04	0.000E+00	---	DFREQ(1,1,5)
AIRT	for wind speed class 1 and stability class B	1.710E-03	0.000E+00	---	DFREQ(1,2,5)
AIRT	for wind speed class 1 and stability class C	9.500E-04	0.000E+00	---	DFREQ(1,3,5)
AIRT	for wind speed class 1 and stability class D	1.700E-03	0.000E+00	---	DFREQ(1,4,5)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,5)
AIRT	for wind speed class 1 and stability class F	6.160E-03	0.000E+00	---	DFREQ(1,6,5)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in E Sector				
AIRT	for wind speed class 2 and stability class A	3.800E-04	0.000E+00	---	DFREQ(2,1,5)
AIRT	for wind speed class 2 and stability class B	1.920E-03	0.000E+00	---	DFREQ(2,2,5)
AIRT	for wind speed class 2 and stability class C	2.470E-03	0.000E+00	---	DFREQ(2,3,5)
AIRT	for wind speed class 2 and stability class D	4.320E-03	0.000E+00	---	DFREQ(2,4,5)
AIRT	for wind speed class 2 and stability class E	4.350E-03	0.000E+00	---	DFREQ(2,5,5)
AIRT	for wind speed class 2 and stability class F	1.046E-02	0.000E+00	---	DFREQ(2,6,5)
AIRT	Joint Frequency in E Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,5)
AIRT	for wind speed class 3 and stability class B	1.280E-03	0.000E+00	---	DFREQ(3,2,5)
AIRT	for wind speed class 3 and stability class C	5.090E-03	0.000E+00	---	DFREQ(3,3,5)
AIRT	for wind speed class 3 and stability class D	6.540E-03	0.000E+00	---	DFREQ(3,4,5)
AIRT	for wind speed class 3 and stability class E	6.420E-03	0.000E+00	---	DFREQ(3,5,5)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,5)
AIRT	Joint Frequency in E Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,5)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,5)
AIRT	for wind speed class 4 and stability class C	1.590E-03	0.000E+00	---	DFREQ(4,3,5)
AIRT	for wind speed class 4 and stability class D	1.289E-02	0.000E+00	---	DFREQ(4,4,5)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,5)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,5)
AIRT	Joint Frequency in E Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,5)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,5)
AIRT	for wind speed class 5 and stability class C	1.000E-04	0.000E+00	---	DFREQ(5,3,5)
AIRT	for wind speed class 5 and stability class D	2.240E-03	0.000E+00	---	DFREQ(5,4,5)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,5)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,5)
AIRT	Joint Frequency in E Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,5)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,5)
AIRT	for wind speed class 6 and stability class C	3.000E-05	0.000E+00	---	DFREQ(6,3,5)
AIRT	for wind speed class 6 and stability class D	5.300E-04	0.000E+00	---	DFREQ(6,4,5)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,5)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,5)
AIRT	Joint Frequency in ESE Sector				
AIRT	for wind speed class 1 and stability class A	1.700E-04	0.000E+00	---	DFREQ(1,1,6)
AIRT	for wind speed class 1 and stability class B	9.800E-04	0.000E+00	---	DFREQ(1,2,6)
AIRT	for wind speed class 1 and stability class C	5.300E-04	0.000E+00	---	DFREQ(1,3,6)
AIRT	for wind speed class 1 and stability class D	9.500E-04	0.000E+00	---	DFREQ(1,4,6)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,6)
AIRT	for wind speed class 1 and stability class F	4.110E-03	0.000E+00	---	DFREQ(1,6,6)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in ESE Sector				
AIRT	for wind speed class 2 and stability class A	2.400E-04	0.000E+00	---	DFREQ(2,1,6)
AIRT	for wind speed class 2 and stability class B	1.590E-03	0.000E+00	---	DFREQ(2,2,6)
AIRT	for wind speed class 2 and stability class C	1.610E-03	0.000E+00	---	DFREQ(2,3,6)
AIRT	for wind speed class 2 and stability class D	2.410E-03	0.000E+00	---	DFREQ(2,4,6)
AIRT	for wind speed class 2 and stability class E	3.170E-03	0.000E+00	---	DFREQ(2,5,6)
AIRT	for wind speed class 2 and stability class F	7.360E-03	0.000E+00	---	DFREQ(2,6,6)
AIRT	Joint Frequency in ESE Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,6)
AIRT	for wind speed class 3 and stability class B	1.180E-03	0.000E+00	---	DFREQ(3,2,6)
AIRT	for wind speed class 3 and stability class C	4.180E-03	0.000E+00	---	DFREQ(3,3,6)
AIRT	for wind speed class 3 and stability class D	4.370E-03	0.000E+00	---	DFREQ(3,4,6)
AIRT	for wind speed class 3 and stability class E	2.430E-03	0.000E+00	---	DFREQ(3,5,6)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,6)
AIRT	Joint Frequency in ESE Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,6)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,6)
AIRT	for wind speed class 4 and stability class C	1.220E-03	0.000E+00	---	DFREQ(4,3,6)
AIRT	for wind speed class 4 and stability class D	7.670E-03	0.000E+00	---	DFREQ(4,4,6)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,6)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,6)
AIRT	Joint Frequency in ESE Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,6)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,6)
AIRT	for wind speed class 5 and stability class C	9.000E-05	0.000E+00	---	DFREQ(5,3,6)
AIRT	for wind speed class 5 and stability class D	1.780E-03	0.000E+00	---	DFREQ(5,4,6)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,6)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,6)
AIRT	Joint Frequency in ESE Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,6)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,6)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,6)
AIRT	for wind speed class 6 and stability class D	2.200E-04	0.000E+00	---	DFREQ(6,4,6)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,6)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,6)
AIRT	Joint Frequency in SE Sector				
AIRT	for wind speed class 1 and stability class A	2.600E-04	0.000E+00	---	DFREQ(1,1,7)
AIRT	for wind speed class 1 and stability class B	1.230E-03	0.000E+00	---	DFREQ(1,2,7)
AIRT	for wind speed class 1 and stability class C	5.300E-04	0.000E+00	---	DFREQ(1,3,7)
AIRT	for wind speed class 1 and stability class D	8.700E-04	0.000E+00	---	DFREQ(1,4,7)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,7)
AIRT	for wind speed class 1 and stability class F	2.040E-03	0.000E+00	---	DFREQ(1,6,7)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in SE Sector				
AIRT	for wind speed class 2 and stability class A	5.100E-04	0.000E+00	---	DFREQ(2,1,7)
AIRT	for wind speed class 2 and stability class B	2.160E-03	0.000E+00	---	DFREQ(2,2,7)
AIRT	for wind speed class 2 and stability class C	1.490E-03	0.000E+00	---	DFREQ(2,3,7)
AIRT	for wind speed class 2 and stability class D	2.880E-03	0.000E+00	---	DFREQ(2,4,7)
AIRT	for wind speed class 2 and stability class E	2.020E-03	0.000E+00	---	DFREQ(2,5,7)
AIRT	for wind speed class 2 and stability class F	3.360E-03	0.000E+00	---	DFREQ(2,6,7)
AIRT	Joint Frequency in SE Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,7)
AIRT	for wind speed class 3 and stability class B	1.440E-03	0.000E+00	---	DFREQ(3,2,7)
AIRT	for wind speed class 3 and stability class C	4.670E-03	0.000E+00	---	DFREQ(3,3,7)
AIRT	for wind speed class 3 and stability class D	4.280E-03	0.000E+00	---	DFREQ(3,4,7)
AIRT	for wind speed class 3 and stability class E	1.950E-03	0.000E+00	---	DFREQ(3,5,7)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,7)
AIRT	Joint Frequency in SE Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,7)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,7)
AIRT	for wind speed class 4 and stability class C	9.100E-04	0.000E+00	---	DFREQ(4,3,7)
AIRT	for wind speed class 4 and stability class D	5.630E-03	0.000E+00	---	DFREQ(4,4,7)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,7)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,7)
AIRT	Joint Frequency in SE Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,7)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,7)
AIRT	for wind speed class 5 and stability class C	7.000E-05	0.000E+00	---	DFREQ(5,3,7)
AIRT	for wind speed class 5 and stability class D	6.000E-04	0.000E+00	---	DFREQ(5,4,7)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,7)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,7)
AIRT	Joint Frequency in SE Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,7)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,7)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,7)
AIRT	for wind speed class 6 and stability class D	1.200E-04	0.000E+00	---	DFREQ(6,4,7)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,7)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,7)
AIRT	Joint Frequency in SSE Sector				
AIRT	for wind speed class 1 and stability class A	1.400E-04	0.000E+00	---	DFREQ(1,1,8)
AIRT	for wind speed class 1 and stability class B	8.100E-04	0.000E+00	---	DFREQ(1,2,8)
AIRT	for wind speed class 1 and stability class C	3.900E-04	0.000E+00	---	DFREQ(1,3,8)
AIRT	for wind speed class 1 and stability class D	1.210E-03	0.000E+00	---	DFREQ(1,4,8)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,8)
AIRT	for wind speed class 1 and stability class F	1.980E-03	0.000E+00	---	DFREQ(1,6,8)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in SSE Sector				
AIRT	for wind speed class 2 and stability class A	2.200E-04	0.000E+00	---	DFREQ(2,1,8)
AIRT	for wind speed class 2 and stability class B	1.420E-03	0.000E+00	---	DFREQ(2,2,8)
AIRT	for wind speed class 2 and stability class C	1.470E-03	0.000E+00	---	DFREQ(2,3,8)
AIRT	for wind speed class 2 and stability class D	3.820E-03	0.000E+00	---	DFREQ(2,4,8)
AIRT	for wind speed class 2 and stability class E	1.470E-03	0.000E+00	---	DFREQ(2,5,8)
AIRT	for wind speed class 2 and stability class F	3.540E-03	0.000E+00	---	DFREQ(2,6,8)
AIRT	Joint Frequency in SSE Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,8)
AIRT	for wind speed class 3 and stability class B	1.130E-03	0.000E+00	---	DFREQ(3,2,8)
AIRT	for wind speed class 3 and stability class C	3.200E-03	0.000E+00	---	DFREQ(3,3,8)
AIRT	for wind speed class 3 and stability class D	5.770E-03	0.000E+00	---	DFREQ(3,4,8)
AIRT	for wind speed class 3 and stability class E	3.820E-03	0.000E+00	---	DFREQ(3,5,8)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,8)
AIRT	Joint Frequency in SSE Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,8)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,8)
AIRT	for wind speed class 4 and stability class C	5.500E-04	0.000E+00	---	DFREQ(4,3,8)
AIRT	for wind speed class 4 and stability class D	4.790E-03	0.000E+00	---	DFREQ(4,4,8)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,8)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,8)
AIRT	Joint Frequency in SSE Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,8)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,8)
AIRT	for wind speed class 5 and stability class C	5.000E-05	0.000E+00	---	DFREQ(5,3,8)
AIRT	for wind speed class 5 and stability class D	3.900E-04	0.000E+00	---	DFREQ(5,4,8)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,8)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,8)
AIRT	Joint Frequency in SSE Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,8)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,8)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,8)
AIRT	for wind speed class 6 and stability class D	1.400E-04	0.000E+00	---	DFREQ(6,4,8)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,8)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,8)
AIRT	Joint Frequency in S Sector				
AIRT	for wind speed class 1 and stability class A	2.800E-04	0.000E+00	---	DFREQ(1,1,9)
AIRT	for wind speed class 1 and stability class B	1.720E-03	0.000E+00	---	DFREQ(1,2,9)
AIRT	for wind speed class 1 and stability class C	6.800E-04	0.000E+00	---	DFREQ(1,3,9)
AIRT	for wind speed class 1 and stability class D	2.220E-03	0.000E+00	---	DFREQ(1,4,9)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,9)
AIRT	for wind speed class 1 and stability class F	3.350E-03	0.000E+00	---	DFREQ(1,6,9)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in S Sector				
AIRT	for wind speed class 2 and stability class A	3.600E-04	0.000E+00	---	DFREQ(2,1,9)
AIRT	for wind speed class 2 and stability class B	2.550E-03	0.000E+00	---	DFREQ(2,2,9)
AIRT	for wind speed class 2 and stability class C	2.330E-03	0.000E+00	---	DFREQ(2,3,9)
AIRT	for wind speed class 2 and stability class D	8.650E-03	0.000E+00	---	DFREQ(2,4,9)
AIRT	for wind speed class 2 and stability class E	4.200E-03	0.000E+00	---	DFREQ(2,5,9)
AIRT	for wind speed class 2 and stability class F	6.850E-03	0.000E+00	---	DFREQ(2,6,9)
AIRT	Joint Frequency in S Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,9)
AIRT	for wind speed class 3 and stability class B	1.460E-03	0.000E+00	---	DFREQ(3,2,9)
AIRT	for wind speed class 3 and stability class C	5.210E-03	0.000E+00	---	DFREQ(3,3,9)
AIRT	for wind speed class 3 and stability class D	1.118E-02	0.000E+00	---	DFREQ(3,4,9)
AIRT	for wind speed class 3 and stability class E	4.180E-03	0.000E+00	---	DFREQ(3,5,9)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,9)
AIRT	Joint Frequency in S Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,9)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,9)
AIRT	for wind speed class 4 and stability class C	6.300E-04	0.000E+00	---	DFREQ(4,3,9)
AIRT	for wind speed class 4 and stability class D	6.080E-03	0.000E+00	---	DFREQ(4,4,9)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,9)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,9)
AIRT	Joint Frequency in S Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,9)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,9)
AIRT	for wind speed class 5 and stability class C	3.000E-05	0.000E+00	---	DFREQ(5,3,9)
AIRT	for wind speed class 5 and stability class D	5.000E-04	0.000E+00	---	DFREQ(5,4,9)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,9)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,9)
AIRT	Joint Frequency in S Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,9)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,9)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,9)
AIRT	for wind speed class 6 and stability class D	5.000E-05	0.000E+00	---	DFREQ(6,4,9)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,9)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,9)
AIRT	Joint Frequency in SSW Sector				
AIRT	for wind speed class 1 and stability class A	2.400E-04	0.000E+00	---	DFREQ(1,1,10)
AIRT	for wind speed class 1 and stability class B	1.300E-03	0.000E+00	---	DFREQ(1,2,10)
AIRT	for wind speed class 1 and stability class C	6.300E-04	0.000E+00	---	DFREQ(1,3,10)
AIRT	for wind speed class 1 and stability class D	2.160E-03	0.000E+00	---	DFREQ(1,4,10)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,10)
AIRT	for wind speed class 1 and stability class F	2.670E-03	0.000E+00	---	DFREQ(1,6,10)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in SSW Sector				
AIRT	for wind speed class 2 and stability class A	3.800E-04	0.000E+00	---	DFREQ(2,1,10)
AIRT	for wind speed class 2 and stability class B	2.310E-03	0.000E+00	---	DFREQ(2,2,10)
AIRT	for wind speed class 2 and stability class C	2.140E-03	0.000E+00	---	DFREQ(2,3,10)
AIRT	for wind speed class 2 and stability class D	8.220E-03	0.000E+00	---	DFREQ(2,4,10)
AIRT	for wind speed class 2 and stability class E	3.360E-03	0.000E+00	---	DFREQ(2,5,10)
AIRT	for wind speed class 2 and stability class F	4.830E-03	0.000E+00	---	DFREQ(2,6,10)
AIRT	Joint Frequency in SSW Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,10)
AIRT	for wind speed class 3 and stability class B	1.160E-03	0.000E+00	---	DFREQ(3,2,10)
AIRT	for wind speed class 3 and stability class C	4.140E-03	0.000E+00	---	DFREQ(3,3,10)
AIRT	for wind speed class 3 and stability class D	1.416E-02	0.000E+00	---	DFREQ(3,4,10)
AIRT	for wind speed class 3 and stability class E	3.010E-03	0.000E+00	---	DFREQ(3,5,10)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,10)
AIRT	Joint Frequency in SSW Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,10)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,10)
AIRT	for wind speed class 4 and stability class C	5.100E-04	0.000E+00	---	DFREQ(4,3,10)
AIRT	for wind speed class 4 and stability class D	7.690E-03	0.000E+00	---	DFREQ(4,4,10)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,10)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,10)
AIRT	Joint Frequency in SSW Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,10)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,10)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,10)
AIRT	for wind speed class 5 and stability class D	6.700E-04	0.000E+00	---	DFREQ(5,4,10)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,10)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,10)
AIRT	Joint Frequency in SSW Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,10)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,10)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,10)
AIRT	for wind speed class 6 and stability class D	5.000E-05	0.000E+00	---	DFREQ(6,4,10)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,10)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,10)
AIRT	Joint Frequency in SW Sector				
AIRT	for wind speed class 1 and stability class A	3.300E-04	0.000E+00	---	DFREQ(1,1,11)
AIRT	for wind speed class 1 and stability class B	1.890E-03	0.000E+00	---	DFREQ(1,2,11)
AIRT	for wind speed class 1 and stability class C	1.010E-03	0.000E+00	---	DFREQ(1,3,11)
AIRT	for wind speed class 1 and stability class D	2.950E-03	0.000E+00	---	DFREQ(1,4,11)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,11)
AIRT	for wind speed class 1 and stability class F	3.100E-03	0.000E+00	---	DFREQ(1,6,11)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in SW Sector				
AIRT	for wind speed class 2 and stability class A	5.100E-04	0.000E+00	---	DFREQ(2,1,11)
AIRT	for wind speed class 2 and stability class B	3.510E-03	0.000E+00	---	DFREQ(2,2,11)
AIRT	for wind speed class 2 and stability class C	2.760E-03	0.000E+00	---	DFREQ(2,3,11)
AIRT	for wind speed class 2 and stability class D	1.062E-02	0.000E+00	---	DFREQ(2,4,11)
AIRT	for wind speed class 2 and stability class E	4.400E-03	0.000E+00	---	DFREQ(2,5,11)
AIRT	for wind speed class 2 and stability class F	3.780E-03	0.000E+00	---	DFREQ(2,6,11)
AIRT	Joint Frequency in SW Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,11)
AIRT	for wind speed class 3 and stability class B	1.870E-03	0.000E+00	---	DFREQ(3,2,11)
AIRT	for wind speed class 3 and stability class C	5.570E-03	0.000E+00	---	DFREQ(3,3,11)
AIRT	for wind speed class 3 and stability class D	1.808E-02	0.000E+00	---	DFREQ(3,4,11)
AIRT	for wind speed class 3 and stability class E	2.160E-03	0.000E+00	---	DFREQ(3,5,11)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,11)
AIRT	Joint Frequency in SW Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,11)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,11)
AIRT	for wind speed class 4 and stability class C	8.700E-04	0.000E+00	---	DFREQ(4,3,11)
AIRT	for wind speed class 4 and stability class D	8.150E-03	0.000E+00	---	DFREQ(4,4,11)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,11)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,11)
AIRT	Joint Frequency in SW Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,11)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,11)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,11)
AIRT	for wind speed class 5 and stability class D	2.400E-04	0.000E+00	---	DFREQ(5,4,11)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,11)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,11)
AIRT	Joint Frequency in SW Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,11)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,11)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,11)
AIRT	for wind speed class 6 and stability class D	2.000E-05	0.000E+00	---	DFREQ(6,4,11)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,11)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,11)
AIRT	Joint Frequency in WSW Sector				
AIRT	for wind speed class 1 and stability class A	2.900E-04	0.000E+00	---	DFREQ(1,1,12)
AIRT	for wind speed class 1 and stability class B	1.460E-03	0.000E+00	---	DFREQ(1,2,12)
AIRT	for wind speed class 1 and stability class C	9.900E-04	0.000E+00	---	DFREQ(1,3,12)
AIRT	for wind speed class 1 and stability class D	2.860E-03	0.000E+00	---	DFREQ(1,4,12)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,12)
AIRT	for wind speed class 1 and stability class F	3.090E-03	0.000E+00	---	DFREQ(1,6,12)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in WSW Sector				
AIRT	for wind speed class 2 and stability class A	3.800E-04	0.000E+00	---	DFREQ(2,1,12)
AIRT	for wind speed class 2 and stability class B	2.690E-03	0.000E+00	---	DFREQ(2,2,12)
AIRT	for wind speed class 2 and stability class C	2.430E-03	0.000E+00	---	DFREQ(2,3,12)
AIRT	for wind speed class 2 and stability class D	1.000E-02	0.000E+00	---	DFREQ(2,4,12)
AIRT	for wind speed class 2 and stability class E	5.460E-03	0.000E+00	---	DFREQ(2,5,12)
AIRT	for wind speed class 2 and stability class F	3.900E-03	0.000E+00	---	DFREQ(2,6,12)
AIRT	Joint Frequency in WSW Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,12)
AIRT	for wind speed class 3 and stability class B	1.590E-03	0.000E+00	---	DFREQ(3,2,12)
AIRT	for wind speed class 3 and stability class C	5.890E-03	0.000E+00	---	DFREQ(3,3,12)
AIRT	for wind speed class 3 and stability class D	1.396E-02	0.000E+00	---	DFREQ(3,4,12)
AIRT	for wind speed class 3 and stability class E	1.250E-03	0.000E+00	---	DFREQ(3,5,12)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,12)
AIRT	Joint Frequency in WSW Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,12)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,12)
AIRT	for wind speed class 4 and stability class C	7.900E-04	0.000E+00	---	DFREQ(4,3,12)
AIRT	for wind speed class 4 and stability class D	5.750E-03	0.000E+00	---	DFREQ(4,4,12)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,12)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,12)
AIRT	Joint Frequency in WSW Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,12)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,12)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,12)
AIRT	for wind speed class 5 and stability class D	1.200E-04	0.000E+00	---	DFREQ(5,4,12)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,12)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,12)
AIRT	Joint Frequency in WSW Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,12)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,12)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,12)
AIRT	for wind speed class 6 and stability class D	0.000E+00	0.000E+00	---	DFREQ(6,4,12)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,12)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,12)
AIRT	Joint Frequency in W Sector				
AIRT	for wind speed class 1 and stability class A	2.400E-04	0.000E+00	---	DFREQ(1,1,13)
AIRT	for wind speed class 1 and stability class B	2.120E-03	0.000E+00	---	DFREQ(1,2,13)
AIRT	for wind speed class 1 and stability class C	8.200E-04	0.000E+00	---	DFREQ(1,3,13)
AIRT	for wind speed class 1 and stability class D	3.370E-03	0.000E+00	---	DFREQ(1,4,13)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,13)
AIRT	for wind speed class 1 and stability class F	3.140E-03	0.000E+00	---	DFREQ(1,6,13)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in W Sector				
AIRT	for wind speed class 2 and stability class A	3.100E-04	0.000E+00	---	DFREQ(2,1,13)
AIRT	for wind speed class 2 and stability class B	2.470E-03	0.000E+00	---	DFREQ(2,2,13)
AIRT	for wind speed class 2 and stability class C	3.050E-03	0.000E+00	---	DFREQ(2,3,13)
AIRT	for wind speed class 2 and stability class D	1.026E-02	0.000E+00	---	DFREQ(2,4,13)
AIRT	for wind speed class 2 and stability class E	5.450E-03	0.000E+00	---	DFREQ(2,5,13)
AIRT	for wind speed class 2 and stability class F	3.130E-03	0.000E+00	---	DFREQ(2,6,13)
AIRT	Joint Frequency in W Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,13)
AIRT	for wind speed class 3 and stability class B	1.900E-03	0.000E+00	---	DFREQ(3,2,13)
AIRT	for wind speed class 3 and stability class C	5.460E-03	0.000E+00	---	DFREQ(3,3,13)
AIRT	for wind speed class 3 and stability class D	9.880E-03	0.000E+00	---	DFREQ(3,4,13)
AIRT	for wind speed class 3 and stability class E	7.200E-04	0.000E+00	---	DFREQ(3,5,13)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,13)
AIRT	Joint Frequency in W Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,13)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,13)
AIRT	for wind speed class 4 and stability class C	5.500E-04	0.000E+00	---	DFREQ(4,3,13)
AIRT	for wind speed class 4 and stability class D	2.550E-03	0.000E+00	---	DFREQ(4,4,13)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,13)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,13)
AIRT	Joint Frequency in W Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,13)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,13)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,13)
AIRT	for wind speed class 5 and stability class D	7.000E-05	0.000E+00	---	DFREQ(5,4,13)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,13)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,13)
AIRT	Joint Frequency in W Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,13)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,13)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,13)
AIRT	for wind speed class 6 and stability class D	0.000E+00	0.000E+00	---	DFREQ(6,4,13)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,13)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,13)
AIRT	Joint Frequency in WNW Sector				
AIRT	for wind speed class 1 and stability class A	1.600E-04	0.000E+00	---	DFREQ(1,1,14)
AIRT	for wind speed class 1 and stability class B	1.980E-03	0.000E+00	---	DFREQ(1,2,14)
AIRT	for wind speed class 1 and stability class C	7.800E-04	0.000E+00	---	DFREQ(1,3,14)
AIRT	for wind speed class 1 and stability class D	2.010E-03	0.000E+00	---	DFREQ(1,4,14)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,14)
AIRT	for wind speed class 1 and stability class F	2.360E-03	0.000E+00	---	DFREQ(1,6,14)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in WNW Sector				
AIRT	for wind speed class 2 and stability class A	2.700E-04	0.000E+00	---	DFREQ(2,1,14)
AIRT	for wind speed class 2 and stability class B	2.470E-03	0.000E+00	---	DFREQ(2,2,14)
AIRT	for wind speed class 2 and stability class C	2.360E-03	0.000E+00	---	DFREQ(2,3,14)
AIRT	for wind speed class 2 and stability class D	6.420E-03	0.000E+00	---	DFREQ(2,4,14)
AIRT	for wind speed class 2 and stability class E	3.700E-03	0.000E+00	---	DFREQ(2,5,14)
AIRT	for wind speed class 2 and stability class F	2.770E-03	0.000E+00	---	DFREQ(2,6,14)
AIRT	Joint Frequency in WNW Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,14)
AIRT	for wind speed class 3 and stability class B	1.510E-03	0.000E+00	---	DFREQ(3,2,14)
AIRT	for wind speed class 3 and stability class C	3.890E-03	0.000E+00	---	DFREQ(3,3,14)
AIRT	for wind speed class 3 and stability class D	5.740E-03	0.000E+00	---	DFREQ(3,4,14)
AIRT	for wind speed class 3 and stability class E	7.000E-04	0.000E+00	---	DFREQ(3,5,14)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,14)
AIRT	Joint Frequency in WNW Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,14)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,14)
AIRT	for wind speed class 4 and stability class C	3.400E-04	0.000E+00	---	DFREQ(4,3,14)
AIRT	for wind speed class 4 and stability class D	1.920E-03	0.000E+00	---	DFREQ(4,4,14)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,14)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,14)
AIRT	Joint Frequency in WNW Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,14)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,14)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,14)
AIRT	for wind speed class 5 and stability class D	3.000E-05	0.000E+00	---	DFREQ(5,4,14)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,14)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,14)
AIRT	Joint Frequency in WNW Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,14)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,14)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,14)
AIRT	for wind speed class 6 and stability class D	5.000E-05	0.000E+00	---	DFREQ(6,4,14)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,14)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,14)
AIRT	Joint Frequency in NW Sector				
AIRT	for wind speed class 1 and stability class A	2.300E-04	0.000E+00	---	DFREQ(1,1,15)
AIRT	for wind speed class 1 and stability class B	1.340E-03	0.000E+00	---	DFREQ(1,2,15)
AIRT	for wind speed class 1 and stability class C	4.400E-04	0.000E+00	---	DFREQ(1,3,15)
AIRT	for wind speed class 1 and stability class D	1.630E-03	0.000E+00	---	DFREQ(1,4,15)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,15)
AIRT	for wind speed class 1 and stability class F	1.870E-03	0.000E+00	---	DFREQ(1,6,15)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in NW Sector				
AIRT	for wind speed class 2 and stability class A	4.800E-04	0.000E+00	---	DFREQ(2,1,15)
AIRT	for wind speed class 2 and stability class B	1.700E-03	0.000E+00	---	DFREQ(2,2,15)
AIRT	for wind speed class 2 and stability class C	1.370E-03	0.000E+00	---	DFREQ(2,3,15)
AIRT	for wind speed class 2 and stability class D	4.060E-03	0.000E+00	---	DFREQ(2,4,15)
AIRT	for wind speed class 2 and stability class E	3.300E-03	0.000E+00	---	DFREQ(2,5,15)
AIRT	for wind speed class 2 and stability class F	2.290E-03	0.000E+00	---	DFREQ(2,6,15)
AIRT	Joint Frequency in NW Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,15)
AIRT	for wind speed class 3 and stability class B	1.040E-03	0.000E+00	---	DFREQ(3,2,15)
AIRT	for wind speed class 3 and stability class C	2.160E-03	0.000E+00	---	DFREQ(3,3,15)
AIRT	for wind speed class 3 and stability class D	4.320E-03	0.000E+00	---	DFREQ(3,4,15)
AIRT	for wind speed class 3 and stability class E	7.700E-04	0.000E+00	---	DFREQ(3,5,15)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,15)
AIRT	Joint Frequency in NW Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,15)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,15)
AIRT	for wind speed class 4 and stability class C	2.700E-04	0.000E+00	---	DFREQ(4,3,15)
AIRT	for wind speed class 4 and stability class D	1.470E-03	0.000E+00	---	DFREQ(4,4,15)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,15)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,15)
AIRT	Joint Frequency in NW Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,15)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,15)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,15)
AIRT	for wind speed class 5 and stability class D	1.500E-04	0.000E+00	---	DFREQ(5,4,15)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,15)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,15)
AIRT	Joint Frequency in NW Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,15)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,15)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,15)
AIRT	for wind speed class 6 and stability class D	3.000E-05	0.000E+00	---	DFREQ(6,4,15)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,15)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,15)
AIRT	Joint Frequency in NNW Sector				
AIRT	for wind speed class 1 and stability class A	1.200E-04	0.000E+00	---	DFREQ(1,1,16)
AIRT	for wind speed class 1 and stability class B	1.290E-03	0.000E+00	---	DFREQ(1,2,16)
AIRT	for wind speed class 1 and stability class C	3.800E-04	0.000E+00	---	DFREQ(1,3,16)
AIRT	for wind speed class 1 and stability class D	1.120E-03	0.000E+00	---	DFREQ(1,4,16)
AIRT	for wind speed class 1 and stability class E	0.000E+00	0.000E+00	---	DFREQ(1,5,16)
AIRT	for wind speed class 1 and stability class F	1.870E-03	0.000E+00	---	DFREQ(1,6,16)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in NNW Sector				
AIRT	for wind speed class 2 and stability class A	2.200E-04	0.000E+00	---	DFREQ(2,1,16)
AIRT	for wind speed class 2 and stability class B	1.270E-03	0.000E+00	---	DFREQ(2,2,16)
AIRT	for wind speed class 2 and stability class C	8.600E-04	0.000E+00	---	DFREQ(2,3,16)
AIRT	for wind speed class 2 and stability class D	2.960E-03	0.000E+00	---	DFREQ(2,4,16)
AIRT	for wind speed class 2 and stability class E	2.650E-03	0.000E+00	---	DFREQ(2,5,16)
AIRT	for wind speed class 2 and stability class F	1.490E-03	0.000E+00	---	DFREQ(2,6,16)
AIRT	Joint Frequency in NNW Sector				
AIRT	for wind speed class 3 and stability class A	0.000E+00	0.000E+00	---	DFREQ(3,1,16)
AIRT	for wind speed class 3 and stability class B	6.700E-04	0.000E+00	---	DFREQ(3,2,16)
AIRT	for wind speed class 3 and stability class C	1.080E-03	0.000E+00	---	DFREQ(3,3,16)
AIRT	for wind speed class 3 and stability class D	3.480E-03	0.000E+00	---	DFREQ(3,4,16)
AIRT	for wind speed class 3 and stability class E	5.800E-04	0.000E+00	---	DFREQ(3,5,16)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,16)
AIRT	Joint Frequency in NNW Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,16)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,16)
AIRT	for wind speed class 4 and stability class C	2.400E-04	0.000E+00	---	DFREQ(4,3,16)
AIRT	for wind speed class 4 and stability class D	2.050E-03	0.000E+00	---	DFREQ(4,4,16)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,16)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,16)
AIRT	Joint Frequency in NNW Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,16)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,16)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,16)
AIRT	for wind speed class 5 and stability class D	2.600E-04	0.000E+00	---	DFREQ(5,4,16)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,16)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,16)
AIRT	Joint Frequency in NNW Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,16)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,16)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,16)
AIRT	for wind speed class 6 and stability class D	9.000E-05	0.000E+00	---	DFREQ(6,4,16)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,16)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,16)
AIRT	Spacing of points used for areal integration, (m)	1.000E+01	1.000E+01	---	ATGRID
GWTR	fractional accuracy desired - convergence criteria	1.000E-03	1.000E-03	---	EPS
GWTR	Distance from d/g edge of contamination to Well, (m)	5.830E+02	1.000E+02	---	OFFFLPAQW
GWTR	Contamination to Well c/c distance normal to flow, m	0.000E+00	0.000E+00	---	OFFFLNAQW
GWTR	Distance from d/g edge of cz to surface water, (m)	5.833E+02	4.500E+02	---	OFFFLPAQS
GWTR	Contamination to near edge of swb, c/c normal to flow	-1.500E+02	-1.500E+02	---	OFFFLNAQSN
GWTR	Contamination to far edge of swb, c/c normal to flow	1.500E+02	1.500E+02	---	OFFFLNAQSF

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
GWTR	Number of main sub zones in saturated stratum	1024	1	---	NAQS
GWTR	Number of minor sub zones in last main SZ sub zone	1	1	---	NAQSF
GWTR	Number of main sub zones in each unsaturated stratum	1024	1	---	NPSS
GWTR	Number of minor sub zones in last main UZ sub zone	1	1	---	NPSSF
GWTR	Distribution coefficient and longitudinal dispersion	1	1	---	
	1 = Nuclide specific distrubution coefficients in all subzones. Longitudinal dispersion in all but the subzone of transformation.				
GWTR	Retardation factor flag for groundwater transport	0	0	---	
	0 = (total porosity + distribution coefficient*dry bulk density) / total porosity				
USZN	Number of unsaturated zone strata	0	1	---	NS
SZNE	Well pump intake depth (m below water table)	2.021E+01	1.000E+01	---	DWIBWT
SZNE	Depth of aquifer contributing to surface water body	1.000E+01	1.000E+01	---	DPTHAQSW
SZNE	Thickness of saturated zone (m)	1.524E+01	1.000E+02	---	DPTHAQ
SZNE	Density of saturated zone (g/cm**3)	1.510E+00	1.500E+00	---	DENSAQ
SZNE	Saturated zone total porosity	8.000E-02	4.000E-01	---	TPSZ
SZNE	Saturated zone effective porosity	8.000E-02	2.000E-01	---	EPSZ
SZNE	Saturated zone hydraulic conductivity (m/yr)	4.418E+02	1.000E+02	---	HCSZ
SZNE	Saturated zone hydraulic gradient to well	3.800E-02	2.000E-02	---	HGW
SZNE	Satur. zone hydraulic gradient to surface water body	3.800E-02	2.000E-02	---	HGSW
SZNE	longitudinal dispersivity to well (m)	6.510E-02	3.000E+00	---	ALPHALOW
SZNE	longitudinal dispersivity to SWB (m)	6.510E-02	1.000E+01	---	ALPHALOSW
SZNE	lateral (horizontal) dispersivity to well (m)	6.510E-03	4.000E-01	---	ALPHATW
SZNE	lateral (horizontal) dispersivity to SWB (m)	6.510E-03	1.000E+00	---	ALPHATSW
SZNE	lateral (vertical) dispersivity to well (m)	6.510E-03	2.000E-02	---	ALPHAVW
SZNE	lateral (vertical) dispersivity to SWB (m)	6.510E-03	6.000E-02	---	ALPHAVSW
SZNE	Irrigation rate over aquifer to well (m/yr)	not used	2.000E-01	---	RIAQW
SZNE	Irrigation rate over aquifer to SWB (m/yr)	not used	2.000E-01	---	RIAQSW
SZNE	Evapotranspiration coefficient over aquifer to well	not used	5.000E-01	---	EVAPTRAQW
SZNE	Evapotranspiration coefficient over aquifer to SWB	not used	5.000E-01	---	EVAPTRAQSW
SZNE	Runoff coefficient over aquifer to well	not used	2.000E-01	---	RUNOFFAQW
SZNE	Runoff coefficient over aquifer to SWB	not used	2.000E-01	---	RUNOFFAQSW
SZNE	Concentration of mobile colloids in the aquifer	0.000E+00	0.000E+00	---	CCOL
SZNE	Water - Soil Distribution coefficient of colloids	0.000E+00	0.000E+00	---	K1Co1
SZNE	Water - Mobile Colloids Distribution coefficient	0.000E+00	0.000E+00	---	K3Co1
WTRU	Drinking water intake (L/yr)	5.100E+02	5.100E+02	---	DWI
WTRU	Fraction of drinking water from surface water	1.000E+00	0.000E+00	---	FSWD
WTRU	Fraction of drinking water from well water	0.000E+00	1.000E+00	---	FWWD
WTRU	Fraction of household water from surface water	1.000E+00	0.000E+00	---	FSWHH
WTRU	Fraction of household water from well water	0.000E+00	1.000E+00	---	FWWHH
WTRU	Livestock water intake for meat 1 (L/day)	not used	5.000E+01	---	LWI (1)
WTRU	Fraction of livestock water 1 from surface water	not used	0.000E+00	---	FSWLV (1)
WTRU	Fraction of livestock water 1 from well water	not used	1.000E+00	---	FWWLV (1)
WTRU	Livestock water intake for milk (L/day)	not used	1.600E+02	---	LWI (2)
WTRU	Fraction of dairy cow water from surface water	not used	0.000E+00	---	FSWLV (2)
WTRU	Fraction of dairy cow water from well water	not used	1.000E+00	---	FWWLV (2)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
WTRU	Irrigation rate in Agricultural Area 1 (m/yr)	not used	2.000E-01	---	RIRRIG(1)
WTRU	Fraction of irrigation water 1 from surface water	not used	0.000E+00	---	FSWIR(1)
WTRU	Fraction of irrigation water 1 from well water	not used	1.000E+00	---	FWWIR(1)
WTRU	Irrigation rate in Agricultural Area 2 (m/yr)	not used	2.000E-01	---	RIRRIG(2)
WTRU	Fraction of irrigation water 2 from surface water	not used	0.000E+00	---	FSWIR(2)
WTRU	Fraction of irrigation water 2 from well water	not used	1.000E+00	---	FWWIR(2)
WTRU	Irrigation rate in Agricultural Area 3 (m/yr)	not used	2.000E-01	---	RIRRIG(3)
WTRU	Fraction of irrigation water 3 from surface water	not used	0.000E+00	---	FSWIR(3)
WTRU	Fraction of irrigation water 3 from well water	not used	1.000E+00	---	FWWIR(3)
WTRU	Irrigation rate in Agricultural Area 4 (m/yr)	not used	2.000E-01	---	RIRRIG(4)
WTRU	Fraction of irrigation water 4 from surface water	not used	0.000E+00	---	FSWIR(4)
WTRU	Fraction of irrigation water 4 from well water	not used	1.000E+00	---	FWWIR(4)
WTRU	Irrigation rate in Offsite dwelling site (m/yr)	not used	2.000E-01	---	RIRRIGDWELL
WTRU	Fraction of irrigation water from surface water	not used	0.000E+00	---	FSWIRDWELL
WTRU	Fraction of irrigation water from well water	not used	1.000E+00	---	FWWIRDWELL
WTRU	Well pumping rate (m**3/yr)	5.100E+03	5.100E+03	---	UW
SWBY	Sediment delivery ratio	0.000E+00	1.000E+00	---	SDR
SWBY	Volume of surface water body	1.500E+05	1.500E+05	---	VLAKE
SWBY	Mean residence time of water in surface water body	1.000E+00	1.000E+00	---	TLAKE
SWBY	Surface area of water in surface water body	9.000E+04	9.000E+04	---	ALAKE
INGE	Fish consumption (kg/yr)	not used	5.400E+00	---	DFI(1)
INGE	Fraction of Fish from affected area	not used	5.000E-01	---	FFISH(1)
INGE	Other Aquatic food consumption (kg/yr)	not used	9.000E-01	---	DFI(2)
INGE	Fraction of Aquatic food from affected area	not used	5.000E-01	---	FFISH(2)
INGE	Non-Leafy vegetables consumption (kg/yr)	not used	1.600E+02	---	DVI(1)
INGE	Fraction of vegetable 1 from affected area	not used	5.000E-01	---	FVEG(1)
INGE	Leafy vegetable consumption (kg/yr)	not used	1.400E+01	---	DVI(2)
INGE	Fraction of vegetable 2 from affected area	not used	5.000E-01	---	FVEG(2)
INGE	Meat 1 consumption (kg/yr)	not used	6.300E+01	---	DMI(1)
INGE	Fraction of meat 1 from affected area	not used	1.000E+00	---	FMEMI(1)
INGE	Milk consumption (L/yr)	not used	9.200E+01	---	DMI(2)
INGE	Fraction of milk from affected area	not used	1.000E+00	---	FMEMI(2)
INGE	Soil ingestion rate (g/yr)	not used	3.650E+01	---	SOIL
VEGE	Wet weight crop yield for Non-Leafy (kg/m**2)	not used	7.000E-01	---	YIELD(1)
VEGE	Growing Season for Non-Leafy (years)	not used	1.700E-01	---	GROWTIME(1)
VEGE	Translocation Factor for Non-Leafy	not used	1.000E-01	---	FOLI_F(1)
VEGE	Weathering Removal Constant for Non-Leafy	not used	2.000E+01	---	RWEATHER(1)
VEGE	Foliar Interception Fraction for dust Non-Leafy	not used	2.500E-01	---	FINTCEPT(1,1)
VEGE	Foliar Interception-n Fract-n for irrigation Non-Leafy	not used	2.500E-01	---	FINTCEPT(1,2)
VEGE	Depth of roots for Non-Leafy (m)	not used	1.200E+00	---	DROOT(1)
VEGE	Wet weight crop yield for Leafy (kg/m**2)	not used	1.500E+00	---	YIELD(2)
VEGE	Growing Season for Leafy (years)	not used	2.500E-01	---	GROWTIME(2)
VEGE	Translocation Factor for Leafy	not used	1.000E+00	---	FOLI_F(2)
VEGE	Weathering Removal Constant for Leafy	not used	2.000E+01	---	RWEATHER(2)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
VEGE	Foliar Interception Fraction for dust Leafy	not used	2.500E-01	---	FINTCEPT(2,1)
VEGE	Foliar Intercept-n Fract-n for irrigation Leafy	not used	2.500E-01	---	FINTCEPT(2,2)
VEGE	Depth of roots for Leafy (m)	not used	9.000E-01	---	DROOT(2)
VEGE	Wet weight crop yield for Pasture (kg/m**2)	not used	1.100E+00	---	YIELD(3)
VEGE	Growing Season for Pasture (years)	not used	8.000E-02	---	GROWTIME(3)
VEGE	Translocation Factor for Pasture	not used	1.000E+00	---	FOLI_F(3)
VEGE	Weathering Removal Constant for Pasture	not used	2.000E+01	---	RWEATHER(3)
VEGE	Foliar Interception Fraction for dust Pasture	not used	2.500E-01	---	FINTCEPT(3,1)
VEGE	Foliar Intercept-n Fract-n for irrigation Pasture	not used	2.500E-01	---	FINTCEPT(3,2)
VEGE	Depth of roots for Pasture (m)	not used	9.000E-01	---	DROOT(3)
VEGE	Wet weight crop yield for Grain (kg/m**2)	not used	7.000E-01	---	YIELD(4)
VEGE	Growing Season for Grain (years)	not used	1.700E-01	---	GROWTIME(4)
VEGE	Translocation Factor for Grain	not used	1.000E-01	---	FOLI_F(4)
VEGE	Weathering Removal Constant for Grain	not used	2.000E+01	---	RWEATHER(4)
VEGE	Foliar Interception Fraction for dust Grain	not used	2.500E-01	---	FINTCEPT(4,1)
VEGE	Foliar Intercept-n Fract-n for irrigation Grain	not used	2.500E-01	---	FINTCEPT(4,2)
VEGE	Depth of roots for Grain (m)	not used	1.200E+00	---	DROOT(4)
LINT	Feed 1 intake by livestock 1 (kg/day)	not used	1.400E+01	---	LFI(1,1)
LINT	Soil intake with feed 1 by livestock 1 (kg/day)	not used	1.000E-01	---	LSI(1,1)
LINT	Feed 1 intake by dairy cow (kg/day)	not used	4.400E+01	---	LFI(2,1)
LINT	Soil intake with feed 1 by dairy cow (kg/day)	not used	4.000E-01	---	LSI(2,1)
LINT	Feed 2 intake by livestock 1 (kg/day)	not used	5.400E+01	---	LFI(1,2)
LINT	Soil intake with feed 2 by livestock 1 (kg/day)	not used	4.000E-01	---	LSI(1,2)
LINT	Feed 2 intake by dairy cow (kg/day)	not used	1.100E+01	---	LFI(2,2)
LINT	Soil intake with feed 2 by dairy cow (kg/day)	not used	1.000E-01	---	LSI(2,2)
INHE	Inhalation rate (m**3/yr)	not used	8.400E+03	---	INHALR
INHE	Mass loading above primary contamination (g/m**3)	not used	1.000E-04	---	MLFD
INHE	Mass loading for inhalation (g/m**3)	not used	1.000E-04	---	MLINH
INHE	Indoor dust filtration factor, inhalation	not used	4.000E-01	---	SHF3
INHE	Shielding factor, external gamma	not used	7.000E-01	---	SHF1
INHE	Shape factor flag, external gamma	-1.000E+00	1.000E+00	noncircular	FS

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
SEXT	Onsite shape factor array (used if non-circular):				
SEXT	Radii of shape factor array (used if non-circular):				
SEXT	Outer annular radius (m), ring 1:	not used	6.000E+00	---	RAD_SHAPE (1)
SEXT	Outer annular radius (m), ring 2:	not used	1.200E+01	---	RAD_SHAPE (2)
SEXT	Outer annular radius (m), ring 3:	not used	1.800E+01	---	RAD_SHAPE (3)
SEXT	Outer annular radius (m), ring 4:	not used	2.400E+01	---	RAD_SHAPE (4)
SEXT	Outer annular radius (m), ring 5:	not used	3.000E+01	---	RAD_SHAPE (5)
SEXT	Outer annular radius (m), ring 6:	not used	3.600E+01	---	RAD_SHAPE (6)
SEXT	Outer annular radius (m), ring 7:	not used	4.200E+01	---	RAD_SHAPE (7)
SEXT	Outer annular radius (m), ring 8:	not used	4.800E+01	---	RAD_SHAPE (8)
SEXT	Outer annular radius (m), ring 9:	not used	5.400E+01	---	RAD_SHAPE (9)
SEXT	Outer annular radius (m), ring 10:	not used	6.000E+01	---	RAD_SHAPE (10)
SEXT	Outer annular radius (m), ring 11:	not used	6.600E+01	---	RAD_SHAPE (11)
SEXT	Outer annular radius (m), ring 12:	not used	7.200E+01	---	RAD_SHAPE (12)
SEXT	Fractions of annular areas within AREA:				
SEXT	Ring 1	not used	1.000E+00	---	FRACA (1)
SEXT	Ring 2	not used	1.000E+00	---	FRACA (2)
SEXT	Ring 3	not used	1.000E+00	---	FRACA (3)
SEXT	Ring 4	not used	1.000E+00	---	FRACA (4)
SEXT	Ring 5	not used	1.000E+00	---	FRACA (5)
SEXT	Ring 6	not used	1.000E+00	---	FRACA (6)
SEXT	Ring 7	not used	1.000E+00	---	FRACA (7)
SEXT	Ring 8	not used	1.000E+00	---	FRACA (8)
SEXT	Ring 9	not used	7.700E-01	---	FRACA (9)
SEXT	Ring 10	not used	3.700E-01	---	FRACA (10)
SEXT	Ring 11	not used	1.700E-01	---	FRACA (11)
SEXT	Ring 12	not used	3.100E-02	---	FRACA (12)
SEXT	Nearsite shape factor array (used if non-circular):				
SEXT	Radii of shape factor array (used if non-circular):				
SEXT	Outer annular radius (m), ring 13:	not used	1.325E+01	---	RAD_SHAPE (13)
SEXT	Outer annular radius (m), ring 14:	not used	2.650E+01	---	RAD_SHAPE (14)
SEXT	Outer annular radius (m), ring 15:	not used	3.975E+01	---	RAD_SHAPE (15)
SEXT	Outer annular radius (m), ring 16:	not used	5.300E+01	---	RAD_SHAPE (16)
SEXT	Outer annular radius (m), ring 17:	not used	6.625E+01	---	RAD_SHAPE (17)
SEXT	Outer annular radius (m), ring 18:	not used	7.950E+01	---	RAD_SHAPE (18)
SEXT	Outer annular radius (m), ring 19:	not used	9.275E+01	---	RAD_SHAPE (19)
SEXT	Outer annular radius (m), ring 20:	not used	1.060E+02	---	RAD_SHAPE (20)
SEXT	Outer annular radius (m), ring 21:	not used	1.193E+02	---	RAD_SHAPE (21)
SEXT	Outer annular radius (m), ring 22:	not used	1.325E+02	---	RAD_SHAPE (22)
SEXT	Outer annular radius (m), ring 23:	not used	1.458E+02	---	RAD_SHAPE (23)
SEXT	Outer annular radius (m), ring 24:	not used	1.590E+02	---	RAD_SHAPE (24)

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
SEXT	Fractions of annular areas within AREA:				
SEXT	Ring 13	not used	0.000E+00	---	FRACA(13)
SEXT	Ring 14	not used	0.000E+00	---	FRACA(14)
SEXT	Ring 15	not used	0.000E+00	---	FRACA(15)
SEXT	Ring 16	not used	2.400E-02	---	FRACA(16)
SEXT	Ring 17	not used	1.900E-01	---	FRACA(17)
SEXT	Ring 18	not used	2.400E-01	---	FRACA(18)
SEXT	Ring 19	not used	2.000E-01	---	FRACA(19)
SEXT	Ring 20	not used	1.700E-01	---	FRACA(20)
SEXT	Ring 21	not used	1.500E-01	---	FRACA(21)
SEXT	Ring 22	not used	1.300E-01	---	FRACA(22)
SEXT	Ring 23	not used	1.200E-01	---	FRACA(23)
SEXT	Ring 24	not used	5.200E-02	---	FRACA(24)
OCCU	Fraction of time spent indoors on contaminated site	not used	0.000E+00	---	FIND
OCCU	Fraction of time spent outdoors on contaminated site	not used	0.000E+00	---	FOTD
OCCU	Fraction of time spent indoors in Offsite Dwelling	not used	5.000E-01	---	FINDDWELL
OCCU	Fraction of time spent outdoors in Offsite Dwelling	not used	1.000E-01	---	FOTDDWELL
OCCU	Fraction of time spent outdoors in agri. area 1	not used	1.000E-01	---	OCCUPANCY(1)
OCCU	Fraction of time spent outdoors in agri. area 2	not used	1.000E-01	---	OCCUPANCY(2)
OCCU	Fraction of time spent outdoors in agri. area 3	not used	1.000E-01	---	OCCUPANCY(3)
OCCU	Fraction of time spent outdoors in agri. area 4	not used	1.000E-01	---	OCCUPANCY(4)
RADN	Diffusion coefficient for radon gas (m/sec):				
RADN	in cover material	not used	2.000E-06	---	DIFCV
RADN	in foundation material	not used	3.000E-07	---	DIFFL
RADN	in contaminated zone soil	not used	2.000E-06	---	DIFCZ
RADN	Thickness of building foundation (m)	not used	1.500E-01	---	FLOOR1
RADN	Bulk density of building foundation (g/cm**3)	not used	2.400E+00	---	DENSFL
RADN	Total porosity of the building foundation	not used	1.000E-01	---	TPFL
RADN	Volumetric water content of the foundation	not used	3.000E-02	---	PH2OFL
RADN	Building depth below ground surface (m)	not used	-1.000E+00	---	DMFL
RADN	Radon vertical dimension of mixing (m)	not used	2.000E+00	---	HMIX
RADN	Height of the building (room) (m)	not used	2.500E+00	---	HRM
RADN	Average building air exchange rate (1/hr)	not used	5.000E-01	---	REXG
RADN	Building interior area factor	not used	0.000E+00	---	FAI
RADN	Emanating power of Rn-222 gas	not used	2.500E-01	---	EMANA(1)
RADN	Emanating power of Rn-220 gas	not used	1.500E-01	---	EMANA(2)
C14	C-14 evasion layer thickness in soil (m)	not used	3.000E-01	---	DMC
C14	C-14 evasion flux rate from soil (1/sec)	not used	7.000E-07	---	C14EVSN
C14	C-12 evasion flux rate from soil (1/sec)	not used	1.000E-10	---	C12EVSN
C14	Fraction of vegetation carbon from air	not used	9.800E-01	---	CAIR
C14	Fraction of vegetation carbon from soil	not used	2.000E-02	---	CSOIL

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
C12	C-12 concentration in contaminated soil (g/g)	not used	3.000E-02	---	C12CZ
C12	C-12 concentration in water (g/cm**3)	not used	2.000E-05	---	C12WTR
C12	C-12 concentration in meat 1 (g/g)	not used	2.400E-01	---	C12MEAT_MILK(1)
C12	C-12 concentration in milk (g/g)	not used	7.000E-02	---	C12MEAT_MILK(2)
C12	C-12 concentration in vegetable 1 (g/g)	not used	4.000E-01	---	C12PLANT(1)
C12	C-12 concentration in vegetable 2 (g/g)	not used	9.000E-02	---	C12PLANT(2)
C12	C-12 concentration in livestock feed 1 (g/g)	not used	9.000E-02	---	C12PLANT(3)
C12	C-12 concentration in livestock feed 2 (g/g)	not used	4.000E-01	---	C12PLANT(4)
H3	Humidity in air (g/cm**3)	not used	8.000E+00	---	HUMID
H3	Mass fraction of water in meat 1 (g/g)	not used	6.000E-01	---	H2OMEAT_MILK(1)
H3	Mass fraction of water in milk (g/g)	not used	8.800E-01	---	H2OMEAT_MILK(2)
H3	Mass fraction of water in vegetable 1 (g/g)	not used	8.000E-01	---	H2OPLANT(1)
H3	Mass fraction of water in vegetable 2 (g/g)	not used	8.000E-01	---	H2OPLANT(2)
H3	Mass fraction of water in livestock feed 1 (g/g)	not used	8.000E-01	---	H2OPLANT(3)
H3	Mass fraction of water in livestock feed 2 (g/g)	not used	8.000E-01	---	H2OPLANT(4)

Summary of Pathway Selections

Pathway	User Selection
1 -- external gamma	suppressed
2 -- inhalation (w/o radon)	suppressed
3 -- plant ingestion	suppressed
4 -- meat ingestion	suppressed
5 -- milk ingestion	suppressed
6 -- aquatic foods	suppressed
7 -- drinking water	active
8 -- soil ingestion	suppressed
9 -- radon	suppressed

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Contaminated Zone Dimensions		Initial Soil Concentrations, pCi/g	
Area:	42.38 square meters	Ag-110m	4.040E+02
Thickness:	2.00 meters	Ba-140	1.010E+03
Cover Depth:	10.21 meters	Br-84	1.717E+04
		Ce-141	1.616E+02
		Ce-143	1.414E+02
		Ce-144	1.212E+02
		Co-58	1.919E+03
		Co-60	2.222E+02
		Cr-51	1.313E+03
		Cs-134	6.969E+05
		Cs-136	1.010E+06
		Cs-137	5.050E+05
		Cs-138	3.737E+05
		Fe-55	5.050E+02
		Fe-59	1.313E+02
		H-3	1.010E+06
		I-129	1.515E-02
		I-130	1.111E+04
		I-132	9.494E+05
		I-134	2.222E+05
		La-140	3.131E+02
		Mn-54	6.767E+02
		Mn-56	1.717E+05
		Mo-99	2.121E+05
		Nb-95	1.616E+02
		Pr-143	1.515E+02
		Pr-144	1.212E+02
		Rb-88	1.520E+06
		Rb-89	6.969E+04
		Rh-103m	1.414E+02
		Ru-103	1.414E+02
		Sr-89	1.111E+03
		Sr-90	4.949E+01
		Sr-91	1.717E+03
		Sr-92	4.141E+02
		Tc-99m	2.020E+05
		Te-127m	7.676E+02
		Te-129	3.838E+03
		Te-129m	2.626E+03
		Te-132	7.979E+04
		Te-134	1.111E+04
		Y-90	1.313E+01
		Y-91	1.414E+02
		Y-91m	9.292E+02
		Y-92	3.434E+02
		Y-93	1.111E+02
		Zr-95	1.616E+02

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Total Dose TDOSE(t), mrem/yr

Basic Radiation Dose Limit = 2.500E+01 mrem/yr

Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)

t (years):	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03
TDOSE(t):	1.538E-02	2.504E-01	2.460E+00	5.633E-01	5.043E-05	5.227E-09	1.519E-16	0.000E+00	0.000E+00
M(t):	6.151E-04	1.002E-02	9.838E-02	2.253E-02	2.017E-06	2.091E-10	6.078E-18	0.000E+00	0.000E+00

Maximum TDOSE(t): 3.459E+00 mrem/yr at t = 4.4 years

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 0 years

From releases to ground water and to surface water

Radio- Nuclide	Ground		Fish		Radon		Plant		Meat		Milk		Soil		Water	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.74E-05	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.24E-29	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.12E-15	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.79E-30	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.35E-05	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	8.14E-18	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.53E-02	99
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.45E-09	0
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.23E-05	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.46E-10	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.91E-15	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.55E-29	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.40E-14	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.02E-11	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.27E-11	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.77E-07	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.37E-15	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.63E-12	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.71E-10	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.64E-13	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.20E-14	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.55E-10	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.54E-02	100

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 0 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil		All Pathways*	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.74E-05	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.24E-29	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.12E-15	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.79E-30	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.35E-05	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	8.14E-18	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.53E-02	99
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.45E-09	0
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.23E-05	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.46E-10	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.91E-15	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.55E-29	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.40E-14	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.02E-11	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.27E-11	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.77E-07	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.37E-15	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.63E-12	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.71E-10	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.64E-13	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.20E-14	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.55E-10	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.54E-02	100

*Sum of dose from all releases and from primary contamination.

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

From releases to ground water and to surface water

Radio- Nuclide	Ground		Fish		Radon		Plant		Meat		Milk		Soil		Water	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.15E-04	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.87E-28	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.09E-14	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.39E-29	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.69E-04	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.84E-17	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.49E-01	99
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.23E-07	0
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.59E-04	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.51E-09	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.83E-14	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.17E-28	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.40E-13	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.10E-10	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.93E-10	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	8.07E-06	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.69E-13	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.25E-10	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.82E-09	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.05E-12	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.95E-13	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.06E-09	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.50E-01	100

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 1 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

[illegible]

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.82E-09	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.05E-12	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.95E-13	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.06E-09	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.50E-01	100

*Sum of dose from all releases and from primary contamination.

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 3 years

From releases to ground water and to surface water

Radio- Nuclide	Ground		Fish		Radon		Plant		Meat		Milk		Soil		Water	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.17E-03	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.68E-28	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.11E-14	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.11E-28	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.03E-03	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.17E-16	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.45E+00	100
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.01E-05	0
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.06E-03	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.48E-07	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.69E-13	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.05E-27	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.90E-12	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.76E-10	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.29E-08	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.47E-05	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.20E-11	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.01E-08	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.07E-09	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.35E-11	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.14E-12	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.44E-08	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.46E+00	100

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 3 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil		All Pathways*	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.17E-03	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.68E-28	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.11E-14	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.11E-28	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.03E-03	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.17E-16	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.45E+00	100
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.01E-05	0
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.06E-03	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.48E-07	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.69E-13	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.05E-27	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.90E-12	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.76E-10	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.29E-08	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.47E-05	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.20E-11	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.01E-08	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.07E-09	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.35E-11	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.14E-12	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.44E-08	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.46E+00	100

*Sum of dose from all releases and from primary contamination.

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 10 years

From releases to ground water and to surface water

Radio- Nuclide	Ground		Fish		Radon		Plant		Meat		Milk		Soil		Water	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	8.89E-06	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.01E-32	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.80E-19	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.18E-33	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.36E-05	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.06E-21	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.63E-01	100
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.97E-04	0
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.90E-05	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.40E-07	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.74E-18	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.12E-32	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.35E-17	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.11E-14	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.96E-08	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.95E-09	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.22E-10	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.97E-07	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.65E-13	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.40E-16	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.35E-12	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.61E-13	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.63E-01	100

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 10 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

[illegible]

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.65E-13	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.40E-16	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.35E-12	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.61E-13	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.63E-01	100

*Sum of dose from all releases and from primary contamination.

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 30 years

From releases to ground water and to surface water

Radio- Nuclide	Ground		Fish		Radon		Plant		Meat		Milk		Soil		Water	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.24E-18	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.33E-17	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.99E-05	99
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.77E-07	1
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.04E-16	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.01E-10	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.61E-11	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.43E-32	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.02E-12	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.78E-10	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

[illegible]

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 30 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil		All Pathways*	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.24E-18	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.33E-17	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.99E-05	99
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.77E-07	1
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.04E-16	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.01E-10	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.61E-11	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.43E-32	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.02E-12	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.78E-10	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.10E-16	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.01E-45	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.04E-05	100

*Sum of dose from all releases and from primary contamination.

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 50 years

From releases to ground water and to surface water

Radio- Nuclide	Ground		Fish		Radon		Plant		Meat		Milk		Soil		Water	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.77E-30	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.55E-28	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.30E-09	82
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.22E-10	18
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.22E-26	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.46E-13	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.14E-14	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.97E-15	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.24E-13	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.95E-19	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.23E-09	100

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 50 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil		All Pathways*	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.77E-30	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.55E-28	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.30E-09	82
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.22E-10	18
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.22E-26	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.46E-13	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.14E-14	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.97E-15	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.24E-13	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.95E-19	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.23E-09	100

*Sum of dose from all releases and from primary contamination.

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 100 years

From releases to ground water and to surface water

Radio- Nuclide	Ground		Fish		Radon		Plant		Meat		Milk		Soil		Water	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.98E-19	0
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.51E-16	100
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.75E-21	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.13E-22	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.24E-22	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.52E-19	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.26E-28	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.52E-16	100

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil		All Pathways*	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.98E-19	0
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.51E-16	100
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.75E-21	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.13E-22	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.24E-22	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.52E-19	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.26E-28	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.52E-16	100

*Sum of dose from all releases and from primary contamination.

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 300 years

From releases to ground water and to surface water

[illegible]

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

[illegible]

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 300 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil		All Pathways*	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

*Sum of dose from all releases and from primary contamination.

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 1000 years

From releases to ground water and to surface water

[illegible]

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

[illegible]

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 1000 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil		All Pathways*	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Ag-110m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ba-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Br-84	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-141	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ce-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-58	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cr-51	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-136	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-138	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-55	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Fe-59	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-130	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
I-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
La-140	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-54	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mn-56	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Mo-99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Nb-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-143	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Pr-144	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-88	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rb-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Rh-103m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ru-103	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-89	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Tc-99m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-127m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-129	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-129m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-132	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Te-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-91m	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-92	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Y-93	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Zr-95	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

*Sum of dose from all releases and from primary contamination.

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j, t) (mrem/yr) / (pCi/g)									
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03	
Ag-110m+D	Ag-110m+D	1.000E+00	9.254E-08	1.276E-06	7.851E-06	2.201E-08	1.050E-20	4.378E-33	0.000E+00	0.000E+00	0.000E+00	
Ba-140	Ba-140	1.000E+00	2.069E-32	1.891E-31	4.730E-31	4.954E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ba-140	La-140	1.000E+00	2.124E-32	1.941E-31	4.855E-31	5.084E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ba-140	ΣDSR(j)		4.193E-32	3.832E-31	9.585E-31	1.004E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Br-84	Br-84	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ce-141	Ce-141	1.000E+00	6.907E-18	6.754E-17	1.924E-16	2.968E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ce-143	Ce-143	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ce-143	Pr-143	1.000E+00	3.389E-32	3.107E-31	7.824E-31	8.372E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ce-143	ΣDSR(j)		3.389E-32	3.107E-31	7.824E-31	8.372E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ce-144+D	Ce-144+D	1.780E-05	4.886E-12	6.857E-11	4.426E-10	1.985E-12	1.071E-23	5.191E-35	0.000E+00	0.000E+00	0.000E+00	
Ce-144+D	Ce-144+D	1.000E+00	2.745E-07	3.852E-06	2.486E-05	1.115E-07	6.014E-19	2.916E-30	0.000E+00	0.000E+00	0.000E+00	
Ce-144+D	Pr-144	1.000E+00	1.529E-09	2.146E-08	1.385E-07	6.212E-10	3.351E-21	1.625E-32	0.000E+00	0.000E+00	0.000E+00	
Ce-144	ΣDSR(j)		2.760E-07	3.874E-06	2.500E-05	1.121E-07	6.048E-19	2.932E-30	0.000E+00	0.000E+00	0.000E+00	
Co-58	Co-58	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Co-60	Co-60	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cr-51	Cr-51	1.000E+00	6.200E-21	5.968E-20	1.650E-19	2.331E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cs-134	Cs-134	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cs-136	Cs-136	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cs-137+D	Cs-137+D	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cs-138	Cs-138	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Fe-55	Fe-55	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Fe-59	Fe-59	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
H-3	H-3	1.000E+00	1.512E-08	2.465E-07	2.426E-06	5.575E-07	4.945E-11	4.261E-15	2.946E-25	0.000E+00	0.000E+00	
I-129	I-129	1.000E+00	1.620E-07	8.128E-06	6.694E-04	1.302E-02	3.150E-05	6.086E-08	1.000E-14	0.000E+00	0.000E+00	

Parent Dose Report

Title : Lee Liquid Tank Failure R2b
File : DUK010-FSAR-2 4-CALC-017R2D.ROF

Dose/Source Ratios Summed Over All Pathways

Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) (mrem/yr) / (pCi/g)								
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03
I-130	I-130	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-132	I-132	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-134	I-134	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
La-140	La-140	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Mn-54	Mn-54	1.000E+00	4.777E-08	6.787E-07	4.528E-06	2.808E-08	7.455E-19	1.805E-29	0.000E+00	0.000E+00	0.000E+00
Mn-56	Mn-56	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Mo-99	Mo-99	8.760E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Mo-99	Tc-99m	8.760E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Mo-99	Tc-99	8.760E-01	6.040E-16	1.861E-14	6.103E-13	1.405E-12	1.241E-15	1.017E-18	1.960E-26	0.000E+00	0.000E+00
Mo-99	ΣDSR(j)		6.040E-16	1.861E-14	6.103E-13	1.405E-12	1.241E-15	1.017E-18	1.960E-26	0.000E+00	0.000E+00
Mo-99	Mo-99	1.240E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Mo-99	Tc-99	1.240E-01	8.550E-17	2.635E-15	8.639E-14	1.989E-13	1.757E-16	1.440E-19	2.775E-27	0.000E+00	0.000E+00
Mo-99	ΣDSR(j)		8.550E-17	2.635E-15	8.639E-14	1.989E-13	1.757E-16	1.440E-19	2.775E-27	0.000E+00	0.000E+00
Nb-95	Nb-95	1.000E+00	3.660E-17	3.611E-16	1.046E-15	1.696E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pr-143	Pr-143	1.000E+00	3.002E-31	2.753E-30	6.931E-30	7.417E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pr-144	Pr-144	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Rb-88	Rb-88	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Rb-89	Rb-89	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Rb-89	Sr-89	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Rb-89	ΣDSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Rh-103m	Rh-103m	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ru-103	Ru-103	3.000E-03	1.353E-18	1.353E-17	4.021E-17	7.079E-22	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ru-103	Ru-103	9.970E-01	4.498E-16	4.497E-15	1.336E-14	2.353E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ru-103	Rh-103m	9.970E-01	1.712E-18	1.712E-17	5.087E-17	8.957E-22	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ru-103	ΣDSR(j)		4.515E-16	4.514E-15	1.341E-14	2.362E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Sr-89	Sr-89	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Parent (i)	Product (j)	Thread Fraction	DSR(j, t) (mrem/yr) / (pCi/g)									
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03	
Sr-90	Sr-90	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-90	Y-90	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-90	ΣDSR (j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	Sr-91	5.780E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	Y-91m	5.780E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	Y-91	5.780E-01	3.450E-15	3.701E-14	1.265E-13	3.727E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	ΣDSR (j)		3.450E-15	3.701E-14	1.265E-13	3.727E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	Sr-91	4.220E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	Y-91	4.220E-01	2.518E-15	2.701E-14	9.228E-14	2.720E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	ΣDSR (j)		2.518E-15	2.701E-14	9.228E-14	2.720E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-92	Sr-92	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-92	Y-92	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-92	ΣDSR (j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Tc-99m	Tc-99m	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Tc-99m	Tc-99	1.000E+00	6.309E-17	1.943E-15	6.369E-14	1.465E-13	1.293E-16	1.060E-19	2.043E-27	0.000E+00	0.000E+00	
Tc-99m	ΣDSR (j)		6.309E-17	1.943E-15	6.369E-14	1.465E-13	1.293E-16	1.060E-19	2.043E-27	0.000E+00	0.000E+00	
Te-127m	Te-127m	2.400E-02	1.955E-11	2.332E-10	1.004E-09	1.140E-13	9.899E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127m	Te-127m	9.760E-01	7.949E-10	9.484E-09	4.082E-08	4.636E-12	4.025E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127m	Te-127	9.760E-01	6.691E-11	7.984E-10	3.436E-09	3.902E-13	3.389E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127m	ΣDSR (j)		8.618E-10	1.028E-08	4.426E-08	5.026E-12	4.364E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129	Te-129	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129	I-129	1.000E+00	1.400E-18	7.005E-17	5.737E-15	1.100E-13	2.656E-16	5.131E-19	8.431E-26	0.000E+00	0.000E+00	
Te-129	ΣDSR (j)		1.400E-18	7.005E-17	5.737E-15	1.100E-13	2.656E-16	5.131E-19	8.431E-26	0.000E+00	0.000E+00	
Te-129m	Te-129m	6.500E-01	3.590E-17	3.524E-16	1.011E-15	1.592E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129m	Te-129	6.500E-01	6.788E-19	6.662E-18	1.910E-17	3.009E-22	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129m	I-129	6.500E-01	6.153E-16	3.067E-14	2.506E-12	4.885E-11	1.184E-13	2.288E-16	3.759E-23	0.000E+00	0.000E+00	
Te-129m	ΣDSR (j)		6.519E-16	3.103E-14	2.507E-12	4.885E-11	1.184E-13	2.288E-16	3.759E-23	0.000E+00	0.000E+00	
Te-129m	Te-129m	3.500E-01	1.933E-17	1.897E-16	5.441E-16	8.571E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129m	I-129	3.500E-01	3.313E-16	1.651E-14	1.350E-12	2.631E-11	6.376E-14	1.232E-16	2.024E-23	0.000E+00	0.000E+00	
Te-129m	ΣDSR (j)		3.507E-16	1.670E-14	1.350E-12	2.631E-11	6.376E-14	1.232E-16	2.024E-23	0.000E+00	0.000E+00	
Te-132	Te-132	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-132	I-132	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-132	ΣDSR (j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) (mrem/yr)/(pCi/g)									
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03	
Te-134	Te-134	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-134	I-134	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-134	ΣDSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-90	Y-90	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	Y-91	1.000E+00	1.210E-12	1.284E-11	4.292E-11	1.167E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91m	Y-91m	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91m	Y-91	1.000E+00	7.143E-16	7.583E-15	2.534E-14	6.890E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91m	ΣDSR(j)		7.143E-16	7.583E-15	2.534E-14	6.890E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-92	Y-92	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-93	Y-93	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-93	Zr-93	1.000E+00	3.595E-16	5.931E-15	6.048E-14	1.885E-14	5.128E-18	1.358E-21	1.553E-30	0.000E+00	0.000E+00	
Y-93	Nb-93m	1.000E+00	1.843E-17	3.210E-16	3.774E-15	2.326E-15	1.258E-18	3.932E-22	4.854E-31	0.000E+00	0.000E+00	
Y-93	ΣDSR(j)		3.779E-16	6.252E-15	6.425E-14	2.118E-14	6.387E-18	1.751E-21	2.038E-30	0.000E+00	0.000E+00	
Zr-95	Zr-95	6.980E-03	1.123E-14	1.211E-13	4.178E-13	1.305E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-95	Nb-95m	6.980E-03	7.261E-15	7.829E-14	2.701E-13	8.436E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-95	Nb-95	6.980E-03	1.801E-14	1.941E-13	6.699E-13	2.092E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-95	ΣDSR(j)		3.650E-14	3.935E-13	1.358E-12	4.240E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-95	Zr-95	9.930E-01	1.598E-12	1.723E-11	5.944E-11	1.856E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-95	Nb-95	9.930E-01	2.417E-12	2.606E-11	8.993E-11	2.808E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-95	ΣDSR(j)		4.015E-12	4.329E-11	1.494E-10	4.665E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

The DSR includes contributions from associated (half-life ≤ 10 minutes) daughters.

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Single Radionuclide Soil Guidelines G(i,t) in pCi/g

Basic Radiation Dose Limit = 2.500E+01 mrem/yr

Nuclide	t=	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03
(i)										
Ag-110m		2.702E+08	1.960E+07	3.184E+06	1.136E+09	*4.754E+15	*4.754E+15	*4.754E+15	*4.754E+15	*4.754E+15
Ba-140		*7.325E+16	*7.325E+16	*7.325E+16	*7.325E+16	*7.325E+16	*7.325E+16	*7.325E+16	*7.325E+16	*7.325E+16
Br-84		*7.046E+19	*7.046E+19	*7.046E+19	*7.046E+19	*7.046E+19	*7.046E+19	*7.046E+19	*7.046E+19	*7.046E+19
Ce-141		*2.851E+16	*2.851E+16	*2.851E+16	*2.851E+16	*2.851E+16	*2.851E+16	*2.851E+16	*2.851E+16	*2.851E+16
Ce-143		*6.645E+17	*6.645E+17	*6.645E+17	*6.645E+17	*6.645E+17	*6.645E+17	*6.645E+17	*6.645E+17	*6.645E+17
Ce-144		9.058E+07	6.454E+06	9.999E+05	2.230E+08	*3.191E+15	*3.191E+15	*3.191E+15	*3.191E+15	*3.191E+15
Co-58		*3.183E+16	*3.183E+16	*3.183E+16	*3.183E+16	*3.183E+16	*3.183E+16	*3.183E+16	*3.183E+16	*3.183E+16
Co-60		*1.132E+15	*1.132E+15	*1.132E+15	*1.132E+15	*1.132E+15	*1.132E+15	*1.132E+15	*1.132E+15	*1.132E+15
Cr-51		*9.251E+16	*9.251E+16	*9.251E+16	*9.251E+16	*9.251E+16	*9.251E+16	*9.251E+16	*9.251E+16	*9.251E+16
Cs-134		*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15	*1.295E+15
Cs-136		*7.334E+16	*7.334E+16	*7.334E+16	*7.334E+16	*7.334E+16	*7.334E+16	*7.334E+16	*7.334E+16	*7.334E+16
Cs-137		*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13	*8.704E+13
Cs-138		*4.234E+19	*4.234E+19	*4.234E+19	*4.234E+19	*4.234E+19	*4.234E+19	*4.234E+19	*4.234E+19	*4.234E+19
Fe-55		*2.410E+15	*2.410E+15	*2.410E+15	*2.410E+15	*2.410E+15	*2.410E+15	*2.410E+15	*2.410E+15	*2.410E+15
Fe-59		*4.975E+16	*4.975E+16	*4.975E+16	*4.975E+16	*4.975E+16	*4.975E+16	*4.975E+16	*4.975E+16	*4.975E+16
H-3		1.653E+09	1.014E+08	1.031E+07	4.484E+07	5.055E+11	5.867E+15	*9.597E+15	*9.597E+15	*9.597E+15
I-129		1.543E+08	3.076E+06	3.735E+04	1.920E+03	7.936E+05	*1.766E+08	*1.766E+08	*1.766E+08	*1.766E+08
I-130		*1.952E+18	*1.952E+18	*1.952E+18	*1.952E+18	*1.952E+18	*1.952E+18	*1.952E+18	*1.952E+18	*1.952E+18
I-132		*1.033E+19	*1.033E+19	*1.033E+19	*1.033E+19	*1.033E+19	*1.033E+19	*1.033E+19	*1.033E+19	*1.033E+19
I-134		*2.669E+19	*2.669E+19	*2.669E+19	*2.669E+19	*2.669E+19	*2.669E+19	*2.669E+19	*2.669E+19	*2.669E+19
La-140		*5.562E+17	*5.562E+17	*5.562E+17	*5.562E+17	*5.562E+17	*5.562E+17	*5.562E+17	*5.562E+17	*5.562E+17
Mn-54		5.233E+08	3.684E+07	5.521E+06	8.903E+08	*7.746E+15	*7.746E+15	*7.746E+15	*7.746E+15	*7.746E+15
Mn-56		*2.173E+19	*2.173E+19	*2.173E+19	*2.173E+19	*2.173E+19	*2.173E+19	*2.173E+19	*2.173E+19	*2.173E+19
Mo-99		3.626E+16	1.177E+15	3.588E+13	1.558E+13	1.765E+16	*4.800E+17	*4.800E+17	*4.800E+17	*4.800E+17
Nb-95		*3.914E+16	*3.914E+16	2.391E+16	*3.914E+16	*3.914E+16	*3.914E+16	*3.914E+16	*3.914E+16	*3.914E+16
Pr-143		*6.738E+16	*6.738E+16	*6.738E+16	*6.738E+16	*6.738E+16	*6.738E+16	*6.738E+16	*6.738E+16	*6.738E+16
Pr-144		*7.561E+19	*7.561E+19	*7.561E+19	*7.561E+19	*7.561E+19	*7.561E+19	*7.561E+19	*7.561E+19	*7.561E+19
Rb-88		*1.202E+20	*1.202E+20	*1.202E+20	*1.202E+20	*1.202E+20	*1.202E+20	*1.202E+20	*1.202E+20	*1.202E+20
Rb-89		*1.391E+20	*1.391E+20	*1.391E+20	*1.391E+20	*1.391E+20	*1.391E+20	*1.391E+20	*1.391E+20	*1.391E+20
Rh-103m		*3.256E+19	*3.256E+19	*3.256E+19	*3.256E+19	*3.256E+19	*3.256E+19	*3.256E+19	*3.256E+19	*3.256E+19
Ru-103		*3.230E+16	5.521E+15	1.858E+15	*3.230E+16	*3.230E+16	*3.230E+16	*3.230E+16	*3.230E+16	*3.230E+16
Sr-89		*2.908E+16	*2.908E+16	*2.908E+16	*2.908E+16	*2.908E+16	*2.908E+16	*2.908E+16	*2.908E+16	*2.908E+16
Sr-90		*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14
Sr-91		4.189E+15	3.905E+14	1.143E+14	*3.629E+18	*3.629E+18	*3.629E+18	*3.629E+18	*3.629E+18	*3.629E+18
Sr-92		*1.258E+19	*1.258E+19	*1.258E+19	*1.258E+19	*1.258E+19	*1.258E+19	*1.258E+19	*1.258E+19	*1.258E+19
Tc-99m		3.963E+17	1.286E+16	3.925E+14	1.707E+14	1.933E+17	*5.263E+18	*5.263E+18	*5.263E+18	*5.263E+18
Te-127m		2.837E+10	2.377E+09	5.523E+08	4.864E+12	*9.439E+15	*9.439E+15	*9.439E+15	*9.439E+15	*9.439E+15
Te-129		1.785E+19	3.569E+17	4.358E+15	2.272E+14	9.413E+16	*2.096E+19	*2.096E+19	*2.096E+19	*2.096E+19
Te-129m		2.494E+16	5.238E+14	6.481E+12	3.326E+11	1.372E+14	*3.015E+16	*3.015E+16	*3.015E+16	*3.015E+16
Te-132		*3.038E+17	*3.038E+17	*3.038E+17	*3.038E+17	*3.038E+17	*3.038E+17	*3.038E+17	*3.038E+17	*3.038E+17
Te-134		*3.359E+19	*3.359E+19	*3.359E+19	*3.359E+19	*3.359E+19	*3.359E+19	*3.359E+19	*3.359E+19	*3.359E+19
Y-90		*5.446E+17	*5.446E+17	*5.446E+17	*5.446E+17	*5.446E+17	*5.446E+17	*5.446E+17	*5.446E+17	*5.446E+17
Y-91		2.067E+13	1.947E+12	5.825E+11	2.143E+16	*2.455E+16	*2.455E+16	*2.455E+16	*2.455E+16	*2.455E+16
Y-91m		3.500E+16	3.297E+15	9.864E+14	3.628E+19	*4.161E+19	*4.161E+19	*4.161E+19	*4.161E+19	*4.161E+19

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-92	*9.632E+18	*9.632E+18	*9.632E+18	*9.632E+18	*9.632E+18	*9.632E+18	*9.632E+18	*9.632E+18	*9.632E+18
Y-93	6.616E+16	3.999E+15	3.891E+14	1.181E+15	*3.339E+18	*3.339E+18	*3.339E+18	*3.339E+18	*3.339E+18
Zr-95	6.171E+12	5.723E+11	1.659E+11	5.311E+15	*2.150E+16	*2.150E+16	*2.150E+16	*2.150E+16	*2.150E+16

*At specific activity limit

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Summed Dose/Source Ratios DSR(i,t) in (mrem/yr)/(pCi/g)
 and Single Radionuclide Soil Guidelines G(i,t) in pCi/g
 at tmin = time of minimum single radionuclide soil guideline
 and at tmax = time of maximum total dose = 4.4 years

Nuclide (i)	Initial (pCi/g)	tmin (years)	DSR(i,tmin)	G(i,tmin) (pCi/g)	DSR(i,tmax)	G(i,tmax) (pCi/g)
Ag-110m	4.040E+02	3.42	8.264E-06	3.025E+06	6.688E-06	3.738E+06
Ba-140	1.010E+03	2.44	1.024E-30	*7.325E+16	3.848E-31	*7.325E+16
Br-84	1.717E+04	0	0.000E+00	*7.046E+19	0.000E+00	*7.046E+19
Ce-141	1.616E+02	2.44	1.983E-16	1.260E+17	8.434E-17	*2.851E+16
Ce-143	1.414E+02	2.44	8.340E-31	*6.645E+17	3.156E-31	*6.645E+17
Ce-144	1.212E+02	3.42	2.666E-05	9.376E+05	2.238E-05	1.117E+06
Co-58	1.919E+03	0	0.000E+00	*3.183E+16	0.000E+00	*3.183E+16
Co-60	2.222E+02	0	0.000E+00	*1.132E+15	0.000E+00	*1.132E+15
Cr-51	1.313E+03	2.44	1.715E-19	1.458E+20	7.091E-20	*9.251E+16
Cs-134	6.969E+05	0	0.000E+00	*1.295E+15	0.000E+00	*1.295E+15
Cs-136	1.010E+06	0	0.000E+00	*7.334E+16	0.000E+00	*7.334E+16
Cs-137	5.050E+05	0	0.000E+00	*8.704E+13	0.000E+00	*8.704E+13
Cs-138	3.737E+05	0	0.000E+00	*4.234E+19	0.000E+00	*4.234E+19
Fe-55	5.050E+02	0	0.000E+00	*2.410E+15	0.000E+00	*2.410E+15
Fe-59	1.313E+02	0	0.000E+00	*4.975E+16	0.000E+00	*4.975E+16
H-3	1.010E+06	4.4	3.416E-06	7.318E+06	3.416E-06	7.318E+06
I-129	1.515E-02	8.31	1.556E-02	1.607E+03	3.545E-03	7.053E+03
I-130	1.111E+04	0	0.000E+00	*1.952E+18	0.000E+00	*1.952E+18
I-132	9.494E+05	0	0.000E+00	*1.033E+19	0.000E+00	*1.033E+19
I-134	2.222E+05	0	0.000E+00	*2.669E+19	0.000E+00	*2.669E+19
La-140	3.131E+02	0	0.000E+00	*5.562E+17	0.000E+00	*5.562E+17
Mn-54	6.767E+02	3.42	4.872E-06	5.131E+06	4.195E-06	5.960E+06
Mn-56	1.717E+05	0	0.000E+00	*2.173E+19	0.000E+00	*2.173E+19
Mo-99	2.121E+05	6.35	3.225E-12	7.751E+12	3.839E-12	6.512E+12
Nb-95	1.616E+02	2.44	1.073E-15	2.330E+16	4.635E-16	*3.914E+16
Pr-143	1.515E+02	2.44	7.389E-30	*6.738E+16	2.796E-30	*6.738E+16
Pr-144	1.212E+02	0	0.000E+00	*7.561E+19	0.000E+00	*7.561E+19
Rb-88	1.520E+06	0	0.000E+00	*1.202E+20	0.000E+00	*1.202E+20
Rb-89	6.969E+04	0	0.000E+00	*1.391E+20	0.000E+00	*1.391E+20
Rh-103m	1.414E+02	0	0.000E+00	*3.256E+19	0.000E+00	*3.256E+19
Ru-103	1.414E+02	2.44	1.371E-14	1.823E+15	6.088E-15	4.107E+15
Sr-89	1.111E+03	0	0.000E+00	*2.908E+16	0.000E+00	*2.908E+16
Sr-90	4.949E+01	0	0.000E+00	*1.365E+14	0.000E+00	*1.365E+14
Sr-91	1.717E+03	2.93	2.220E-13	1.126E+14	1.722E-13	1.452E+14
Sr-92	4.141E+02	0	0.000E+00	*1.258E+19	0.000E+00	*1.258E+19
Tc-99m	2.020E+05	6.35	2.946E-13	8.487E+13	1.870E-13	1.337E+14
Te-127m	7.676E+02	2.93	4.556E-08	5.487E+08	2.792E-08	8.953E+08
Te-129	3.838E+03	8.31	1.317E-13	1.899E+14	3.027E-14	8.260E+14
Te-129m	2.626E+03	8.31	8.961E-11	2.790E+11	3.362E-11	7.435E+11
Te-132	7.979E+04	0	0.000E+00	*3.038E+17	0.000E+00	*3.038E+17
Te-134	1.111E+04	0	0.000E+00	*3.359E+19	0.000E+00	*3.359E+19
Y-90	1.313E+01	0	0.000E+00	*5.446E+17	0.000E+00	*5.446E+17
Y-91	1.414E+02	2.93	4.358E-11	5.736E+11	2.107E-11	1.187E+12

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Y-91m	9.292E+02	2.93	2.574E-14	9.714E+14	1.244E-14	2.010E+15
Y-92	3.434E+02	0	0.000E+00	*9.632E+18	0.000E+00	*9.632E+18
Y-93	1.111E+02	4.4	9.483E-14	2.636E+14	9.483E-14	2.636E+14
Zr-95	1.616E+02	2.93	1.529E-10	1.635E+11	7.647E-11	3.269E+11

*At specific activity limit

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Thread Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03
Ag-110m	Ag-110m	1.000E+00	3.739E-05	5.154E-04	3.172E-03	8.893E-06	4.240E-18	1.769E-30	0.000E+00	0.000E+00	0.000E+00
Ba-140	Ba-140	1.000E+00	2.090E-29	1.910E-28	4.777E-28	5.003E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
La-140	Ba-140	1.000E+00	2.145E-29	1.961E-28	4.903E-28	5.135E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
La-140	La-140	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
La-140	ΣDOSE(j):		2.145E-29	1.961E-28	4.903E-28	5.135E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Br-84	Br-84	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ce-141	Ce-141	1.000E+00	1.116E-15	1.092E-14	3.109E-14	4.797E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ce-143	Ce-143	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pr-143	Ce-143	1.000E+00	4.792E-30	4.394E-29	1.106E-28	1.184E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pr-143	Pr-143	1.000E+00	4.548E-29	4.171E-28	1.050E-27	1.124E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pr-143	ΣDOSE(j):		5.028E-29	4.610E-28	1.161E-27	1.242E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ce-144	Ce-144	1.780E-05	5.921E-10	8.310E-09	5.364E-08	2.405E-10	1.298E-21	6.291E-33	0.000E+00	0.000E+00	0.000E+00
Ce-144	Ce-144	1.000E+00	3.327E-05	4.669E-04	3.014E-03	1.351E-05	7.289E-17	3.534E-28	0.000E+00	0.000E+00	0.000E+00
Ce-144	ΣDOSE(j):		3.327E-05	4.669E-04	3.014E-03	1.351E-05	7.289E-17	3.534E-28	0.000E+00	0.000E+00	0.000E+00
Pr-144	Ce-144	1.000E+00	1.853E-07	2.601E-06	1.679E-05	7.529E-08	4.061E-19	1.969E-30	0.000E+00	0.000E+00	0.000E+00
Pr-144	Pr-144	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pr-144	ΣDOSE(j):		1.853E-07	2.601E-06	1.679E-05	7.529E-08	4.061E-19	1.969E-30	0.000E+00	0.000E+00	0.000E+00
Co-58	Co-58	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Co-60	Co-60	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cr-51	Cr-51	1.000E+00	8.140E-18	7.836E-17	2.166E-16	3.061E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cs-134	Cs-134	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cs-136	Cs-136	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cs-137	Cs-137	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cs-138	Cs-138	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Fe-55	Fe-55	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Fe-59	Fe-59	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
H-3	H-3	1.000E+00	1.527E-02	2.490E-01	2.450E+00	5.631E-01	4.995E-05	4.304E-09	2.975E-19	0.000E+00	0.000E+00

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Nuclide (j)	Parent (i)	THF(i)	DOSE (j,t), mrem/yr									
			t=	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03
I-129	I-129	1.000E+00	2.454E-09	1.231E-07	1.014E-05	1.973E-04	4.772E-07	9.221E-10	1.515E-16	0.000E+00	0.000E+00	
I-129	Te-129	1.000E+00	5.375E-15	2.689E-13	2.202E-11	4.222E-10	1.019E-12	1.969E-15	3.236E-22	0.000E+00	0.000E+00	
I-129	Te-129m	6.500E-01	1.616E-12	8.053E-11	6.582E-09	1.283E-07	3.109E-10	6.008E-13	9.871E-20	0.000E+00	0.000E+00	
I-129	Te-129m	3.500E-01	8.700E-13	4.336E-11	3.544E-09	6.908E-08	1.674E-10	3.235E-13	5.315E-20	0.000E+00	0.000E+00	
I-129	ΣDOSE(j):		2.457E-09	1.233E-07	1.015E-05	1.975E-04	4.777E-07	9.230E-10	1.516E-16	0.000E+00	0.000E+00	
I-130	I-130	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
I-132	I-132	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
I-132	Te-132	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
I-132	ΣDOSE(j):		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
I-134	I-134	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
I-134	Te-134	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
I-134	ΣDOSE(j):		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Mn-54	Mn-54	1.000E+00	3.233E-05	4.593E-04	3.064E-03	1.900E-05	5.045E-16	1.221E-26	0.000E+00	0.000E+00	0.000E+00	
Mn-56	Mn-56	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Mo-99	Mo-99	8.760E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Mo-99	Mo-99	1.240E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Mo-99	ΣDOSE(j):		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Tc-99m	Mo-99	8.760E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Tc-99m	Tc-99m	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Tc-99m	ΣDOSE(j):		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Tc-99	Mo-99	8.760E-01	1.281E-10	3.948E-09	1.295E-07	2.981E-07	2.632E-10	2.158E-13	4.158E-21	0.000E+00	0.000E+00	
Tc-99	Mo-99	1.240E-01	1.813E-11	5.588E-10	1.832E-08	4.220E-08	3.726E-11	3.055E-14	5.886E-22	0.000E+00	0.000E+00	
Tc-99	Tc-99m	1.000E+00	1.274E-11	3.926E-10	1.286E-08	2.959E-08	2.613E-11	2.142E-14	4.127E-22	0.000E+00	0.000E+00	
Tc-99	ΣDOSE(j):		1.590E-10	4.899E-09	1.606E-07	3.699E-07	3.266E-10	2.677E-13	5.159E-21	0.000E+00	0.000E+00	
Nb-95	Nb-95	1.000E+00	5.915E-15	5								

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Thread Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr									
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03	
Rh-103m	Rh-103m	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Rh-103m	Ru-103	9.970E-01	2.421E-16	2.421E-15	7.193E-15	1.267E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Rh-103m	ΣDOSE(j):		2.421E-16	2.421E-15	7.193E-15	1.267E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ru-103	Ru-103	3.000E-03	1.914E-16	1.913E-15	5.685E-15	1.001E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ru-103	Ru-103	9.970E-01	6.360E-14	6.359E-13	1.889E-12	3.327E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ru-103	ΣDOSE(j):		6.379E-14	6.378E-13	1.895E-12	3.337E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-90	Sr-90	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-90	Sr-90	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-90	Y-90	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-90	ΣDOSE(j):		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	Sr-91	5.780E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	Sr-91	4.220E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	ΣDOSE(j):		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91m	Sr-91	5.780E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91m	Y-91m	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91m	ΣDOSE(j):		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	Sr-91	5.780E-01	5.924E-12	6.355E-11	2.171E-10	6.400E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	Sr-91	4.220E-01	4.323E-12	4.637E-11	1.584E-10	4.670E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	Y-91	1.000E+00	1.710E-10	1.816E-09	6.069E-09	1.650E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	Y-91m	1.000E+00	6.637E-13	7.046E-12	2.355E-11	6.402E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	ΣDOSE(j):		1.820E-10	1.933E-09	6.468E-09	1.767E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-92	Sr-92	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-92	Sr-92	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-92	Y-92	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-92	ΣDOSE(j):		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127m	Te-127m	2.400E-02	1.500E-08	1.790E-07	7.705E-07	8.750E-11	7.598E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127m	Te-127m	9.760E-01	6.102E-07	7.280E-06	3.133E-05	3.559E-09	3.090E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127m	ΣDOSE(j):		6.252E-07	7.459E-06	3.211E-05	3.646E-09	3.166E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127	Te-127m	9.760E-01	5.136E-08	6.128E-07	2.638E-06	2.996E-10	2.601E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129	Te-129	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129	Te-129m	6.500E-01	1.782E-15	1.749E-14	5.017E-14	7.902E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129	ΣDOSE(j):		1.782E-15	1.749E-14	5.017E-14	7.902E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

Parent Dose Report

Title : Lee Liquid Tank Failure R2b
 File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Individual Nuclide Dose Summed Over All Pathways
 Parent Nuclide and Thread Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr									
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03	
Te-129m	Te-129m	6.500E-01	9.428E-14	9.253E-13	2.654E-12	4.180E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129m	Te-129m	3.500E-01	5.077E-14	4.982E-13	1.429E-12	2.251E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129m	ΣDOSE(j):		1.450E-13	1.424E-12	4.082E-12	6.430E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-132	Te-132	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-134	Te-134	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-93	Y-93	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-93	Y-93	1.000E+00	3.994E-14	6.589E-13	6.719E-12	2.094E-12	5.698E-16	1.509E-19	1.725E-28	0.000E+00	0.000E+00	
Nb-93m	Y-93	1.000E+00	2.047E-15	3.567E-14	4.193E-13	2.584E-13	1.398E-16	4.369E-20	5.392E-29	0.000E+00	0.000E+00	
Zr-95	Zr-95	6.980E-03	1.815E-12	1.957E-11	6.752E-11	2.109E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-95	Zr-95	9.930E-01	2.582E-10	2.784E-09	9.606E-09	3.000E-13	2.803E-45	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-95	ΣDOSE(j):		2.600E-10	2.804E-09	9.674E-09	3.021E-13	2.803E-45	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Nb-95m	Zr-95	6.980E-03	1.173E-12	1.265E-11	4.366E-11	1.363E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

THF(i) is the thread fraction of the parent nuclide.

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Individual Nuclide Soil Concentration
Parent Nuclide and Thread Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03
Ag-110m	Ag-110m	1.000E+00	4.040E+02	9.802E+01	5.761E+00	2.776E-04	1.161E-16	4.843E-29	0.000E+00	0.000E+00	0.000E+00
Ba-140	Ba-140	1.000E+00	1.010E+03	2.358E-06	1.276E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
La-140	Ba-140	1.000E+00	0.000E+00	2.716E-06	1.469E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
La-140	La-140	1.000E+00	3.131E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
La-140	ΣS(j):		3.131E+02	2.716E-06	1.469E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Br-84	Br-84	1.000E+00	1.717E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ce-141	Ce-141	1.000E+00	1.616E+02	5.088E-02	5.009E-09	1.347E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ce-143	Ce-143	1.000E+00	1.414E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pr-143	Ce-143	1.000E+00	0.000E+00	1.206E-07	6.838E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pr-143	Pr-143	1.000E+00	1.515E+02	1.145E-06	6.493E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pr-143	ΣS(j):		1.515E+02	1.266E-06	7.177E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ce-144	Ce-144	1.780E-05	2.157E-03	5.909E-04	4.427E-05	5.003E-09	2.431E-20	1.179E-31	0.000E+00	0.000E+00	0.000E+00
Ce-144	Ce-144	1.000E+00	1.212E+02	3.320E+01	2.487E+00	2.811E-04	1.366E-15	6.622E-27	0.000E+00	0.000E+00	0.000E+00
Ce-144	ΣS(j):		1.212E+02	3.320E+01	2.487E+00	2.811E-04	1.366E-15	6.622E-27	0.000E+00	0.000E+00	0.000E+00
Pr-144	Ce-144	1.000E+00	0.000E+00	3.320E+01	2.487E+00	2.811E-04	1.366E-15	6.622E-27	0.000E+00	0.000E+00	0.000E+00
Pr-144	Pr-144	1.000E+00	1.212E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pr-144	ΣS(j):		1.212E+02	3.320E+01	2.487E+00	2.811E-04	1.366E-15	6.622E-27	0.000E+00	0.000E+00	0.000E+00
Co-58	Co-58	1.000E+00	1.919E+03	5.599E+01	4.744E-02	7.843E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Co-60	Co-60	1.000E+00	2.222E+02	1.948E+02	1.498E+02	5.964E+01	4.291E+00	3.088E-01	4.290E-04	1.597E-15	0.000E+00
Cr-51	Cr-51	1.000E+00	1.313E+03	1.106E-01	7.782E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cs-134	Cs-134	1.000E+00	6.969E+05	4.982E+05	2.545E+05	2.423E+04	2.910E+01	3.493E-02	1.747E-09	0.000E+00	0.000E+00
Cs-136	Cs-136	1.000E+00	1.010E+06	6.014E-03	2.117E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cs-137	Cs-137	1.000E+00	5.050E+05	4.934E+05	4.711E+05	4.005E+05	2.519E+05	1.584E+05	4.971E+04	4.817E+02	4.315E-05
Cs-138	Cs-138	1.000E+00	3.737E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Fe-55	Fe-55	1.000E+00	5.050E+02	3.908E+02	2.340E+02	3.881E+01	2.284E-01	1.343E-03	3.569E-09	1.775E-31	0.000E+00
Fe-59	Fe-59	1.000E+00	1.313E+02	4.846E-01	6.559E-06	5.442E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
H-3	H-3	1.000E+00	1.010E+06	6.332E+05	2.489E+05	9.440E+03	8.137E-01	7.012E-05	4.847E-15	0.000E+00	0.000E+00

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Individual Nuclide Soil Concentration
Parent Nuclide and Thread Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g									
			t=	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03
I-129	I-129	1.000E+00		1.515E-02	1.109E-02	5.942E-03	6.680E-04	1.291E-06	2.494E-09	4.098E-16	0.000E+00	0.000E+00
I-129	Te-129	1.000E+00		0.000E+00	2.368E-08	1.269E-08	1.426E-09	2.756E-12	5.325E-15	8.749E-22	0.000E+00	0.000E+00
I-129	Te-129m	6.500E-01		0.000E+00	7.222E-06	3.871E-06	4.352E-07	8.410E-10	1.625E-12	2.670E-19	0.000E+00	0.000E+00
I-129	Te-129m	3.500E-01		0.000E+00	3.889E-06	2.085E-06	2.343E-07	4.529E-10	8.750E-13	1.438E-19	0.000E+00	0.000E+00
I-129	ΣS(j):			1.515E-02	1.110E-02	5.948E-03	6.686E-04	1.292E-06	2.496E-09	4.102E-16	0.000E+00	0.000E+00
I-130	I-130	1.000E+00		1.111E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-132	I-132	1.000E+00		9.494E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-132	Te-132	1.000E+00		0.000E+00	5.406E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-132	ΣS(j):			9.494E+05	5.406E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-134	I-134	1.000E+00		2.222E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-134	Te-134	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I-134	ΣS(j):			2.222E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Mn-54	Mn-54	1.000E+00		6.767E+02	2.007E+02	1.763E+01	3.485E-03	8.453E-14	2.046E-24	0.000E+00	0.000E+00	0.000E+00
Mn-56	Mn-56	1.000E+00		1.717E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Mo-99	Mo-99	8.760E-01		1.858E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Mo-99	Mo-99	1.240E-01		2.630E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Mo-99	ΣS(j):			2.121E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Tc-99m	Mo-99	8.760E-01		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Tc-99m	Tc-99m	1.000E+00		2.020E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Tc-99m	ΣS(j):			2.020E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Tc-99	Mo-99	8.760E-01		0.000E+00	4.604E-03	2.264E-03	1.887E-04	1.547E-07	1.268E-10	2.443E-18	0.000E+00	0.000E+00
Tc-99	Mo-99	1.240E-01		0.000E+00	6.517E-04	3.205E-04	2.671E-05	2.190E-08	1.795E-11	3.458E-19	0.000E+00	0.000E+00
Tc-99	Tc-99m	1.000E+00		0.000E+00	4.568E-04	2.247E-04	1.872E-05	1.535E-08	1.258E-11	2.424E-19	0.000E+00	0.000E+00
Tc-99	ΣS(j):			0.000E+00	5.712E-03	2.810E-03	2.341E-04	1.919E-07	1.573E-10	3.031E-18	0.000E+00	0.000E+00
Nb-95	Nb-95	1.000E+00		1.616E+02	9.034E-02	2.804E-08	4.206E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Nb-95	Zr-95	6.980E-03		0.000E+00	3.400E-02	6.355E-06	4.473E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Nb-95	Zr-95	9.930E-01		0.000E+00	4.575E+00	8.532E-04	6.005E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Nb-95	ΣS(j):			1.616E+02	4.699E+00	8.596E-04	6.049E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Rb-88	Rb-88	1.000E+00		1.520E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Rb-89	Rb-89	1.000E+00		6.969E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Sr-89	Rb-89	1.000E+00		0.000E+00	1.037E-01	5.228E-06	4.348E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Sr-89	Sr-89	1.000E+00		1.111E+03	7.911E+00	3.987E-04	3.315E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Sr-89	ΣS(j):			1.111E+03	8.014E+00	4.039E-04	3.359E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Individual Nuclide Soil Concentration
Parent Nuclide and Thread Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g									
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03	
Rh-103m	Rh-103m	1.000E+00	1.414E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Rh-103m	Ru-103	9.970E-01	0.000E+00	1.655E-01	2.261E-07	6.081E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Rh-103m	ΣS(j):		1.414E+02	1.655E-01	2.261E-07	6.081E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ru-103	Ru-103	3.000E-03	4.242E-01	4.975E-04	6.796E-10	1.828E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ru-103	Ru-103	9.970E-01	1.410E+02	1.653E-01	2.258E-07	6.075E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ru-103	ΣS(j):		1.414E+02	1.658E-01	2.265E-07	6.093E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-90	Sr-90	1.000E+00	4.949E+01	4.827E+01	4.591E+01	3.854E+01	2.337E+01	1.417E+01	4.057E+00	2.726E-02	6.780E-10	
Y-90	Sr-90	1.000E+00	0.000E+00	4.807E+01	4.573E+01	3.838E+01	2.327E+01	1.411E+01	4.040E+00	2.715E-02	6.753E-10	
Y-90	Y-90	1.000E+00	1.313E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-90	ΣS(j):		1.313E+01	4.807E+01	4.573E+01	3.838E+01	2.327E+01	1.411E+01	4.040E+00	2.715E-02	6.753E-10	
Sr-91	Sr-91	5.780E-01	9.924E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	Sr-91	4.220E-01	7.246E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-91	ΣS(j):		1.717E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91m	Sr-91	5.780E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91m	Y-91m	1.000E+00	9.292E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91m	ΣS(j):		9.292E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	Sr-91	5.780E-01	0.000E+00	6.314E-02	5.463E-06	3.021E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	Sr-91	4.220E-01	0.000E+00	4.607E-02	3.986E-06	2.205E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	Y-91	1.000E+00	1.414E+02	1.319E+00	1.141E-04	6.313E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	Y-91m	1.000E+00	0.000E+00	5.117E-03	4.428E-07	2.449E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-91	ΣS(j):		1.414E+02	1.433E+00	1.240E-04	6.860E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Sr-92	Sr-92	1.000E+00	4.141E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-92	Sr-92	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-92	Y-92	1.000E+00	3.434E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-92	ΣS(j):		3.434E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127m	Te-127m	2.400E-02	1.842E+01	1.229E+00	5.447E-03	2.997E-11	5.200E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127m	Te-127m	9.760E-01	7.492E+02	4.997E+01	2.215E-01	1.219E-09	2.114E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127m	ΣS(j):		7.676E+02	5.120E+01	2.269E-01	1.249E-09	2.166E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-127	Te-127m	9.760E-01	0.000E+00	5.015E+01	2.223E-01	1.223E-09	2.122E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129	Te-129	1.000E+00	3.838E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129	Te-129m	6.500E-01	0.000E+00	6.905E-01	1.119E-07	1.723E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129	ΣS(j):		3.838E+03	6.905E-01	1.119E-07	1.723E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Individual Nuclide Soil Concentration
Parent Nuclide and Thread Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g									
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	5.000E+01	1.000E+02	3.000E+02	1.000E+03	
Te-129m	Te-129m	6.500E-01	1.707E+03	6.895E-01	1.117E-07	1.721E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129m	Te-129m	3.500E-01	9.191E+02	3.713E-01	6.016E-08	9.265E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-129m	ΣS(j):		2.626E+03	1.061E+00	1.719E-07	2.647E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-132	Te-132	1.000E+00	7.979E+04	5.247E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Te-134	Te-134	1.000E+00	1.111E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y-93	Y-93	1.000E+00	1.111E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-93	Y-93	1.000E+00	0.000E+00	5.547E-08	2.438E-08	1.369E-09	3.625E-13	9.600E-17	1.098E-25	0.000E+00	0.000E+00	
Nb-93m	Y-93	1.000E+00	0.000E+00	2.741E-09	3.443E-09	5.454E-10	2.839E-13	8.849E-17	1.091E-25	0.000E+00	0.000E+00	
Zr-95	Zr-95	6.980E-03	1.128E+00	1.512E-02	2.703E-06	1.902E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-95	Zr-95	9.930E-01	1.605E+02	2.151E+00	3.845E-04	2.706E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zr-95	ΣS(j):		1.616E+02	2.166E+00	3.872E-04	2.725E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Nb-95m	Zr-95	6.980E-03	0.000E+00	1.602E-02	2.864E-06	2.016E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

THF(i) is the thread fraction of the parent nuclide.

Parent Dose Report

Title : Lee Liquid Tank Failure R2b

File : DUK010-FSAR-2_4-CALC-017R2D.ROF

Run Time Information

ResOCalc.EXE execution began at 16:03 on 09/25/2008

ResOCalc.EXE execution ended at 16:05 on 09/25/2008

ResOCalc.EXE execution time 1 minutes 46 seconds

8 Ground water transport numerical integrations did converge to specified criteria.

Check file QRFAIL.LOG for details.