ERRATA

Corrections to published RIFE reports

	Page, Section	Comment						
RIFE-1	38, Section 16.2	Last but one sentence, replace 1994 with 1995.						
1995	39, Section 16.4	1st sentence, 2 nd paragraph, replace 1994 with 1995.						
	45, Table 1	Replace ²⁴¹ Am Sellafield (sea pipelines) limit of 1.3 TBq with 0.3 TBq. Replace ⁶⁰ Co Harwell (pipeline) percentage of 1.5 with 6.9.						
	74, Table 16 99, Table 33(a)	The following active Bq kg ⁻¹ (dry) whilst kg ⁻¹ (wet). All data ar	they should hav	e been report				
		Site/location	²¹⁰ Po	²³⁸ Pu	239+240 Pu			
		Sellafield (Table 16) Aldermaston (Table 33(a)) max	64	0.0091 0.016	0.36 0.56			
	99, Table 33(a)	The concentration of 137 Cs in clay at Outfall (Pangbourne) was 12±0.15 Bq kg ⁻¹ (dry)						
	133, Appendix 3	The average consumption rates of nuts and offal by 10 year old children were 1.5 kg y^{-1} . The consumption of whelks at Sellafield by group E (Whitehaven commercial) was 11 kg y ⁻¹ .						
	138, Appendix 6	The values of t_f and t_s were 0. The transfer factors for beef offal (²⁴¹ Pu) and lamb (²⁴¹ Pu) were 2 10 ⁻² and 4 10 ⁻⁴ respectively.						
RIFE-2 1996	32, Section 8.1	lines 8-11. Replace with "In 1996 no fragments of spe fuel were found on the public beach at Dounreay. Thirtee small fragments were found with caesium-137 activities the range 10^5 - 10^8 Bq (these activities were measured by the operator). They were all found on the Dounreay foreshow which although a public area is largely inaccessible. A"						
	58, Table 2	Replace ³⁵ S Oldbury limit of 0.8 TBq with 0.75 TBq. Replace ⁴¹ Ar Trawsfynydd limit of 350 TBq with 3500 TBq.						

Page, Section	Comment							
85, Table 16 87, Table 18 91, Table 20(a) 95, Table 21	The following activity in soil data were reported as being $Bq kg^{-1} (dry)$ whilst they should have been reported as $Bq kg^{-1} (wet)$. All data are averages unless stated.							
119, Table 41	Site/location	²³⁴ U	²³⁵ U	²³⁸ U				
	Drigg (Table 16)	8.3	0.28	7.4				
	Ravenglass (Table 18)	16	0.56	15				
	Springfields (Table 20(a))	49	2.3	45				
	Capenhurst (Table 21)	9.8	0.36	10				
	Derby (Table 41)	44	1.7	43				

Table 47

This was omitted in error. The data are attached.

Table 47.	Radioactivity in plants near landfill sites, 1996
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Sampling location	Material	No of samples	Mean radioactivity concentration (dry)*, Bq kg ⁻¹							
			³ H	¹⁴ C	⁹⁰ Sr	¹²⁵ I	¹³⁴ Cs	¹³⁷ Cs	²³⁸ Pu	239+240 Pu
Beddingham Lewes, East Sussex	Grass	4	<40 ±18	130 ±28	1.8 ±0.1	<0.19	<0.61	<0.54 ±0.30	<0.00099 ±0.00037	0.0067 ±0.0012
Cilgwyn Quarry, Gwynedd	"	4	<30	360 ±55	3.0 ±0.2	<063	<0.69	<5.2 ±0.9	<0.0095	0.018 ±0.005
Lyndown, Devon	"	4	<28	150 ±30	2.4 ±0.2	<1.3 ±0.2	<0.60	<0.62 ±0.17	<0.0010	<0.0024 ±0.0009
Witton, Cheshire	"	4	<38	130 ±33	0.76 ±0.12	<1.1 ±0.3	<0.59	<0.63	< 0.0013	0.0021 ±0.0016

Results are available for other artificial nuclides detectable by gamma spectrometry * All

l such results are less than the limit of detection	
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RIFE-3 1997	19, Table 1.1	discharges with 1.97 respectively.	and ⁶⁰ Co Devonport (sewer) 7 10^{-6} , 2.22 10^{-6} , 5.60 10^{-7} TBq eta limit and percentage Greenwich nd <1 respectively.					
	21, Table 1.2	Replace tritium Winfrith limit with 5 TBq.						
	38, Section 3.6.5	1st paragraph. Reference to factor of 0.85 millisievert per milligray should be ICRP (1996b).						
	70, Table 4.10 72, Table 4.12 81, Table 4.16 121, Table 9.1	The following activit Bq kg ⁻¹ (dry) whilst th kg ⁻¹ (wet). All data an Site/location	ney should ha	ve been reported	-			
		Drigg (Table 4.10) Ravenglass (Table 4.12)	9.9 18	0.37 0.60	9.5 16			
		Springfields (Table 4.12)	31	1.5	30			
		Capenhurst (Table 4.16)	9.5	0.40	9.5			
		Derby (Table 9.1)	27	0.97	24			
	90, Section 6.3	The maximum dose of by adults.	due to gaseou	s disposals was :	received			
	161, Appendix 4	The 1 year old child do	ose coefficient	for ⁹⁹ Tc was 4.80	10 ⁻⁹ .			

	Page, Section	Comment						
RIFE-4 1998	70, Table 4.12	The concentrations of total Cs and ¹⁴⁴ Ce in ovine muscle (max) were 0.61 and <1.8 Bq kg ⁻¹ (wet) respectively. No value for ¹⁵⁵ Eu is available.						
	75, Table 4.15(a) 77, Table 4.16 116, Table 9.1	The following activity in soil data were reported as being Bq kg ⁻¹ (dry) whilst they should have been reported as Bq kg ⁻¹ (wet). All data are averages unless stated.						
		Site/location	²³⁴ U	²³⁵ U	²³⁸ U			
		Springfields (Table 4.15(a)) Capenhurst (Table 4.16) Derby (Table 9.1)	72 7.9 31	3.0 0.30 0.93	68 7.4 26			
	96, Table 6.4(a)	The concentration of 241 A <1.0 Bq kg ⁻¹ (dry). No remade.						
	125, Section 11.1	Last but one paragraph. The estimated dose was 0.094						
	131, Section 11.8	Last paragraph, first sent	ence. Replace	1997 with 19	998.			
RIFE-5 1999	71, Table 4.15(a) 73, Table 4.16 118, Table 9.1	The following activity in soil data were reported as being $Bq kg^{-1}$ (dry) whilst they should have been reported as $Bq kg^{-1}$ (wet). All data are averages unless stated.						
		Site/location	²³⁴ U	²³⁵ U	²³⁸ U			
		Springfields (Table 4.15(a)) max Capenhurst (Table 4.16) max Derby (Table 9.1) max	180 12 34	15 0.46 1.3	200 12 31			
	112, Section 8.2	The second sentence of paragraph three states that "the duck and tide washed pasture pathways gave doses of 0.032 and 0.009 mSv y ⁻¹ respectively." The dose due to the duck pathway should read 0.042 mSv y ⁻¹ . The value for tide washed pasture is correct.						
	123, Table 10.2	The concentration of ${}^{14}C$ in grass from Billingham was 960 Bq kg ⁻¹ (wet).						
	162, Table A1.2	The Dounreay (Fast Rea	ctor) data were	e duplicated.				
RIFE-6 2000	31, Section 3.5	It was stated that the radionuclides. This sente			to natural			
	75, Table 4.16 124, Table 9.1	The following activity Bq kg ⁻¹ (dry) whilst the kg ⁻¹ (wet). All data are av	ey should hav	ve been repo	-			
		Site/location	²³⁴ U	²³⁵ U	²³⁸ U			
		Capenhurst (Table 4.16) max Derby (Table 9.1) max	8.5 24	0.35 0.96	8.4 23			

	Page, Section	Comment
	155, Table 12.1	Target date for project 'Tritium and carbon-14 in seafood' should have been March 2003.
	166, Table A1.1	Discharges of tritium from Devonport (pipeline) given as 0.87 TBq should have been 0.087 TBq.
	168, Table A1.2	Sellafield Discharge limits of alpha and beta activity should have been 0.00196 and 0.328 TBq. Percentage of limit for alpha and beta activity should have been 4.0 and <1. Discharges of tritium and ¹⁴ C from Sellafield given as 213 and 2.58 TBq should have been 355 and 2.94 TBq. Relevant percentages given as 15 and 30 should have been 25 and 34.
RIFE-7 2001	71, Table 4.8 80, Table 4.15(a) 93, Table 5.2(a) 122, Table 7.3 127, Table 8.2(a) 130, Table 9.1	The following activity in soil data were reported as being $Bq kg^{-1}(dry)$ whilst they should have been reported as $Bq kg^{-1}(wet)$. All data are averages unless stated.
Site/location	⁶⁰ Co ¹⁰⁶ R	u ¹²⁵ Sb ¹³⁴ Cs ¹³⁷ Cs ²³⁴ U ²³⁵ U ²³⁸ U ²⁴¹ Am

Site/location	⁶⁰ Co	¹⁰⁶ Ru	¹²⁵ Sb	¹³⁴ Cs	¹³⁷ Cs	²³⁴ U	²³⁵ U	²³⁸ U	²⁴¹ Am
Sellafield (Table 4.8)	<0.80	<3.1	<1.1		80				5.8
max	1.2				97	9.3	0.34	9.1	6.0
Springfields (Table 4.15(a))									
max						95	4.6	89	
Harwell (Table 5.2(a))	< 0.40			<0.40	2.9				
Featherstone position A (Table 7.3)					9.5	0.41	9.0	
Featherstone position B (Table 7.3))					7.3	0.34	7.5	
Cardiff (Table 8.2(a))				< 0.33	5.6				
max				<0.40	6.5				
Derby (Table 9.1)						18	0.80	18	
max						30	1.3	29	

A1.1	Discharges of Alpha for Hunterston 'A' given as 0.14 TBq
	should have been 1.4×10^{5} TBq. The % of limit given as 350
	should have been <1 .

Dungeness 'A' discharge limit and % of limit for tritium should have been 3 and 23 respectively.

59, Table 4.1

181, Table A1.2

RIFE-8

2002

Two tritium results were omitted. The data are attached.

Table 4.1.Beta/gamma radioactivity in fish from the IrishSea vicinity and further afield, 2002						
Location	Material	No.of sampling observ- ations	3H			
Liverpool Bay	Flounder	2	<25			
Mersey estuary ations	Flounder	2	<25			

Page	Page, Section 79, Table 4.14 82 Table 4.17 128, Table 7.1(a) 138, Table 8.2(a)		Comment					
82 T 128			The following activity in soil data were reported as being $Bq kg^{-1}(dry)$ whilst they should have been reported as $Bq kg^{-1}(wet)$. All data are averages unless stated.					
Site/location	60Co	¹⁰⁶ Ru	¹²⁵ Sb	¹³⁴ Cs	¹³⁷ Cs	²³⁴ U	²³⁵ U	²³⁸ U
Sellafield (Table 4.14)	<0.80	<2.3	<1.2	68				
max	1.0	<2.7	<1.4	82				
Drigg (Table 4.17)								
max						6.9	0.30	6.5
Aldermaston (Table 7.1(a))								
max						8.7	0.35	8.3
Cardiff (Table 8.2(a))				< 0.30	6.4			
max					8.1			

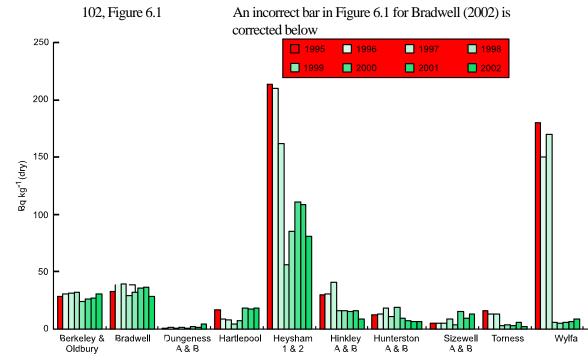


Figure 6.1. Caesium-137 concentration in sediments near nuclear power stations

RIFE-1 - RIFE-8 1995-2002 Urenco Capenhurst have reassessed atmospheric discharges of uranium; the reassessed discharges are listed in Table E1.

V	Original and start	Reassessed
Year	Original reported discharge	discharge
	TBq	TBq
1993	1.74 10%	2.41 107
994	6.74 10 ⁹	2.63 10-7
995	2.69 10 ^s	2.75 10-7
996	1.11 107	8.23 10-7
997	$6.80\ 10^{8}$	4.90 107
1998	6.87 10 ^s	1.87 10-6
.999	8.15 10 ⁻⁸	1.01 10-6
.000	9.64 10 ^s	8.72 107
001	1.20 107	9.77 107
2002	$1.16\ 10^{-7}$	6.01 10-7

RIFE-9	82, Table 3.15	The following activity in soil data were reported as being
2003	138 Table 6.1(a)	Bq kg ⁻¹ (dry) whilst they should have been reported as
	141, Table 6.3(a)	Bq kg ⁻¹ (wet). All data are averages unless stated.
	151, Table 7.3(a)	
	157, Table 8.1(a)	

Comment

Site/location	⁶⁰ Co	¹⁰⁶ Ru	¹²⁵ Sb	¹³⁴ Cs	¹³⁷ Cs	¹⁵⁴ Eu	²³⁴ U	²³⁵ U	²³⁸ U	²⁴¹ Am
Sellafield (Table 3.15)	<0.90	<3.3	<1.2	<0.40	75	<0.50				5.9
max	1.6	<4.2	<1.6		89	<0.60	11	0.54	10	7.7
Aldermaston (Table 6.1(a))										
max							11	0.48	11	
Derby (Table 6.3(a))										
max							47	1.6	40	
Cardiff (Table 7.3(a))				< 0.40	8.8					
max					11					
Drigg (Table 8.1)										
max							6.7	0.26	6.7	

185, Table 9.12

Page, Section

Some data were incorrect. The amended version of the table is attached.

Table 9.12. Concentrations of radionuclides in rainwater and air 2003

Location	Sample	No. of	Mean	radioactivity	y concentration	n ^a in rainwater and	air				
		sampling observ-								Gross	Gross
		ations	_H ⁷	Be	Sr ^b	¹³⁷ Cs	Pb	²¹⁰ Po	-228Th	<u>alpha^b</u>	beta ^b
Ceredigion											
Aberporth	Rainwater	12	<2.4	<1.6		<0.053	0.10		*		
	Air	4		0.0022		< 0.0000052	0.00017		*		
Co. Down											
Conlig	Rainwater	4		<1.5		< 0.022	*		*		
	Air	4		0.0022		< 0.0000063	0.00015		*		
Dumfries and Ga	llowav										
	Eskdalemuir	Rainwater	4	<2.7	1.2		< 0.0098	0.094		*	
	Air	4		0.0018		< 0.0000043	0.00013		*		
North Yorkshire											
Dishforth	Rainwater	4		<2.2		< 0.039	*		*		
	Air	4		0.0016		< 0.0000055	0.00014		*		
Oxfordshire											
Chilton	Rainwater	12		<1.5	< 0.00064	< 0.032	0.32		*	0.074	0.17
	Air	13		0.0018		< 0.0000034	0.00027	< 0.000014	*		
Shetland											
Lerwick	Rainwater	4		1.6		< 0.017	*		*		
	Air	4		0.0015		< 0.0000052	0.00010		*		
Suffolk											
Orfordness	Rainwater	4	<2.2	<2.4		< 0.048	*		5.2		
	Air	4		0.0022		< 0.0000053	0.00020		*		

* Not detected by the method used

 $^{\rm a}~$ Bq $l^{\rm \cdot l}$ for rainwater and Bq kg $^{\rm \cdot l}$ for air

Annual bulk analysis

187, Table 9.14

The concentration of ^{210}Po in Cornwall, River Fowey was ${<}0.0098$ Bq $1^{-1}.$

Page, Section

Comment

188, Table 9.16

A revised version is attached.

Table 9.16. Estimates of maximum radiation exposure from radionuclides in drinking water, 2003₀

Country	Exposure, mSv Man-made radionuclides ^b	Natural radionculides ^c	All radionuclides
England	<0.001	0.028	0.028
Northern Ireland	<0.001	0.026 d	0.026 d
Scotland Wales	<0.001 <0.001	0.027	0.027

a The maximum dose is selected for each nuclide group from data for individual sampling locations. Many estimates of dose are based on concentration results at limits of detection.

b Including tritium

c Including carbon-14

d Analysis of natural radionuclides was not undertaken

	214, Table A1.2	The data shown for Faslane are a duplication of the data for Rosyth and were included in error.
RIFE-10 2004	75, Table 3.7	The entry for Haverigg should read 0.087.
	45, Figure 3.8	An incorrect bar in Figure 3.8 for Americium discharge is corrected below:

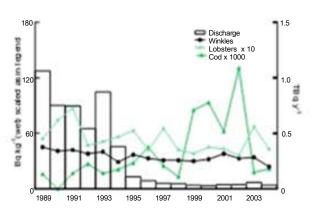


Figure 3.8. Americium-241 and liquid discharge from Sell afield and concentrations in cod^{*}, lobsters and winkles near Sellafield (* estimated in 2004 due to lack of availability of cod)

87, Table 3.15
151 Table 6.1(a)
154, Table 6.3(a)
166, Table 7.3(a)
173, Table 8.1(a)

The following activity in soil data were reported as being Bq kg⁻¹ (dry) whilst they should have been reported as Bq kg⁻¹ (wet). All data are averages unless stated.

Site/location	⁶⁰ Co	¹⁰⁶ Ru	¹²⁵ Sb	¹³⁴ Cs	¹³⁷ Cs	²³⁴ U	²³⁵ U	²³⁸ U
Sellafield (Table 3.15)	<0.43	<1.4	<0.73					
max	0.80	<1.5	< 0.80			16	0.64	15
Aldermaston (Table 6.1(a))								
max						7.8	0.29	7.2
Derby (Table 6.3(a))								
max						27	0.94	23
Cardiff (Table 7.3(a))				< 0.47	7.1			
max				< 0.50	7.7			
Drigg (Table 8.1)								
max						11	0.42	11

	Page, Section	Comment	Comment					
	223, Table A1.1	The % annual 7% (not 70%).	limit for ¹⁰⁶ Ru dischar	ge at Sella	field was			
	246, Table A5.1	Some dose per These were:	Some dose per unit intake values were missing for These were:					
		Table A5.1. Dosi	metric data					
		Radionuclide	Dose per unit intake by inha using ICRP-60 methodology					
		Sr-90 [†] Zr-95 [†] Ba-140 [†] Pb-210 [†] Th-228 [†] U-238	1.2E-07 2.1E-08 2.6E-08 4.0E-06 1.4E-04 9.4E-06					
		 Energy and dose lived daughter pro 	per unit intake data include the ducts	effects of radia	tions of short-			
RIFE-11 2005	72, Table 3.3a		wed an incorrect value. It sh ²²⁷ Np was 0.00035 Bq kg ⁴	ould have rea	ad:			
	112, Table 4.3a	Column headin	gs should have read:	²³⁹ Pu+ ²⁴⁰ Pu	²⁴¹ Pu			
	140,Table 5.5a	The result of <0.13 for ²⁴¹ Am in the Fucus vesiculosis samples from Pilot Station was incorrectly put into the ²³⁹ Pu+ ²⁴⁰ Pu column.						
	206, Figures 9.5 and 9.6	Incorrect units mBq 1 ⁻¹ .	were shown. The corre	ect units we	bre			
	225, Table 9.15	Incorrct headin have been as be	gs in the top part of the elow:	table. Sho	uld			
Table 9.15.	Concentrations of radionucli	ides in sources of drin	king water in England and \	Nales,				

Location	Sample source		No. of sampling	Mean radioactivity concentration, Bq l ¹					
			observ- ations	зН	⁴⁰ K	⁹⁰ Sr	¹³⁷ Cs	²¹⁰ Po	
Wales		_							
Gwynedd	Cwm Ystradllyn Treatment Works		4	<4.0	< 0.020	0.0036	0.0018	< 0.010	
Mid-Glamorgan	Llwyn-on Reservoir		4	<4.0 <4.0	< 0.045	0.0030	< 0.0010	< 0.013	
Powys	Elan Valley Reservoir		4		< 0.050	0.0040	0.00090	<0.010	
	248, Table A1.2						nd beta s 1 respecti		
	251, Table A1.2				m disc .3 respec	0	and % 1	limit shoul	
E 8-11 02-2005	Concentrations in sediments	contents sample calibrat factor h	s it was bulk de ion ran nas beer d data	discov ensities age. n calcu from	vered in 2 were ou Followi ulated at 2002-2	2007 the atside the ang inve and this	has been	sulting	

These amendments do not significantly affect any assessments, charts or statements in the relevant RIFE reports.

ear	Site	Location	No. of	Mean r	adioacti	vity co	ncentratio	n (dry), Bo	∣ kg [.]		
			sampling observ- ations	57 Co	⁶⁰ Co		⁶⁵ Zn	⁹⁵ Zr	⁹⁵ Nb	¹⁰⁶ Ru	¹²⁵ S
)2	Aldermaston	Reading (Kennet)	<u>auons</u> 4	<u> </u>		-			_110	_Ku_	
	Bradwell	Stream draining south Maldon	4 2		<3.4						
	Bradwell	Waterside	2		<3.4 <4.0						
	Capenhurst Cardiff	Rossmore (4.3 km downstream) Canal	2 2								
		West of pipeline	2								
	Devonport Dungeness	Lopwell Pilot Sands	2 2		<3.7 <0.90)					
	Harwell	Appleford Deside Least	4 4		<0.60 <0.50						
	Sellafield	Day's Lock Caerhun	2		<0.50			<9.6	<7.7	<23	<9.
)3	Aldermaston	Reading (Kennet)	4								
0		Aldermaston	4	0.20	.1.1		4.5				
	Amersham Bradwell	Outfall (Grand Union Canal) Waterside	3 2	<0.30	<1.1 <2.0		<1.5				
	Cardiff Derby	Canal River Derwent (downstream)	1 4		<1.0						
	Devonport	Lopwell	2		< 2.5						
94	Aldermaston	Reading (Kennet)	4								
	Theorem	Aldermaston	4								
	Amersham	Stream draining south Upstream of outfall (Grand Union Canal) 2	4	<6.4	<1.8		<4.1				
	Cardiff Sellafield	Canal Caerhun	2 2		<1.6			<4.5	<2.2	<12	<13
					<1.0			< 4. J	\ 2.2	<12	<1.
)5	Aldermaston Amersham	Reading (Kennet) Upstream of outfall (Grand Union Canal) 2	4	<5.3	<1.6		<3.6				
	Cardiff	Canal	2								
	Harwell	Lydebank Brook Appleford	4 4		<1.7 <2.5						
	Sellafield Trawsfynydd	Caerhun Bailey Bridge	2		<2.6 <8.3			<8.8	<6.8	<20	<20 <44
			2			••.	•	(1) D	1		
ar	Site	Location	No. of sampling	Mean 1	adioact	ivity co	ncentratic	on (dry), B	<u>q kg</u> .		
			observ- ations	125 I	131 I	¹³⁴ Cs	137Cs	¹⁴⁴ Ce	¹⁵⁴ Eu	155 Eu	^{241}A
02	Aldermaston	Reading (Kennet)	4				7.3				<1.
12	Aldermaston	Stream draining south	4				<5.1				<1.
	Bradwell	Maldon Waterside	$\frac{2}{2}$			6.5 3.9	80 59				<4. <13
	Capenhurst	Rossmore (4.3 km downstream)	2			5.9	<4.4				<1.
							24				
	Cardiff	Canal	$\frac{2}{2}$	<0.80			2.4				
	Cardiff Devonport	Canal West of pipeline Lopwell	2 2 2	<0.80 <3.1			33 7.7				
	Devonport Dungeness	Canal West of pipeline Lopwell Pilot Sands	2				33 7.7 <0.90				<1.
	Devonport Dungeness Harwell	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock	2 4 4				33 7.7 <0.90 <13 6.0				
	Devonport Dungeness	Canal West of pipeline Lopwell Pilot Sands Appleford	2 4			<3.4	33 7.7 <0.90 <13	<25	<7.3	<8.0	<1. 75
03	Devonport Dungeness Harwell	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun Reading (Kennet)	2 4 4 2 4			<3.4	33 7.7 <0.90 <13 6.0 430 8.0		<7.3	<8.0	75 <1.
)3	Devonport Dungeness Harwell Sellafield	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun	2 4 4 2 4 4 3		<550	<3.4	33 7.7 <0.90 <13 6.0 430		<7.3	<8.0	75 <1.
)3	Devonport Dungeness Harwell Sellafield Aldermaston Amersham Bradwell	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun Reading (Kennet) Aldermaston Outfall (Grand Union Canal) Waterside	2 4 4 2 4 4 3 2	<3.1	<550	<3.4	$\begin{array}{c} 33 \\ 7.7 \\ < 0.90 \\ < 13 \\ 6.0 \\ 430 \\ 8.0 \\ 6.3 \\ < 2.1 \\ 35 \end{array}$		<7.3	<8.0	75 <1. <2.
3	Devonport Dungeness Harwell Sellafield Aldermaston Amersham	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun Reading (Kennet) Aldermaston Outfall (Grand Union Canal)	2 4 4 2 4 4 3 2 1 4	<3.1	<550	<3.4	$\begin{array}{c} 33\\ 7.7\\ <0.90\\ <13\\ 6.0\\ 430\\ 8.0\\ 6.3\\ <2.1\\ 35\\ 16\\ \end{array}$		<7.3	<8.0	75 <1. <2.
3	Devonport Dungeness Harwell Sellafield Aldermaston Amersham Bradwell Cardiff	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun Reading (Kennet) Aldermaston Outfall (Grand Union Canal) Waterside Canal	2 4 4 2 4 4 3 2 1	<3.1	<550	<3.4	$\begin{array}{c} 33 \\ 7.7 \\ < 0.90 \\ < 13 \\ 6.0 \\ 430 \\ 8.0 \\ 6.3 \\ < 2.1 \\ 35 \end{array}$		<7.3	<8.0	75 <1. <2.
	Devonport Dungeness Harwell Sellafield Aldermaston Amersham Bradwell Cardiff Derby	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun Reading (Kennet) Aldermaston Outfall (Grand Union Canal) Waterside Canal River Derwent (downstream) Lopwell Reading (Kennet)	2 4 4 2 4 4 3 2 1 4 2 4	<3.1	<550	<3.4	33 7.7 <0.90 <13 6.0 430 8.0 6.3 <2.1 35 16 <10 5.4		<7.3	<8.0	75 <1. <2. <2.
)3	Devonport Dungeness Harwell Sellafield Aldermaston Amersham Bradwell Cardiff Derby Devonport	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun Reading (Kennet) Aldermaston Outfall (Grand Union Canal) Waterside Canal River Derwent (downstream) Lopwell	2 4 4 2 4 4 3 2 1 4 2	<3.1	<550	<3.4	33 7.7 <0.90 <13 6.0 430 8.0 6.3 <2.1 35 16 <10		<7.3	<8.0	<1. 75 <1. <2. <1. <1. <1. 1.6
	Devonport Dungeness Harwell Sellafield Aldermaston Amersham Bradwell Cardiff Derby Devonport Aldermaston	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun Reading (Kennet) Aldermaston Outfall (Grand Union Canal) Waterside Canal River Derwent (downstream) Lopwell Reading (Kennet) Aldermaston Stream draining south Upstream of outfall (Grand Union Canal) 2	2 4 4 2 4 4 3 2 1 4 2 4 4 4 4	<3.1 <1.0 <1.4 <0.80		<3.4	$\begin{array}{c} 33\\7.7\\<0.90\\<13\\6.0\\430\\\\8.0\\6.3\\<2.1\\35\\16\\<10\\\\5.4\\<3.9\\<2.8\\10\\\end{array}$		<7.3	<8.0	75 <1. <2. <2. <1. <1.
	Devonport Dungeness Harwell Sellafield Aldermaston Amersham Bradwell Cardiff Derby Devonport Aldermaston	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun Reading (Kennet) Aldermaston Outfall (Grand Union Canal) Waterside Canal River Derwent (downstream) Lopwell Reading (Kennet) Aldermaston Stream draining south	2 4 2 4 3 2 1 4 2 4 4 4	<3.1 <1.0 <1.4		<3.4	$\begin{array}{c} 33\\7.7\\<0.90\\<13\\6.0\\430\\\\8.0\\6.3\\<2.1\\35\\16\\<10\\\\5.4\\<3.9\\<2.8\end{array}$		<7.3	<8.0	75 <1. <2. <2. <1. <1.
14	Devonport Dungeness Harwell Sellafield Aldermaston Amersham Bradwell Cardiff Derby Devonport Aldermaston Amersham Cardiff Sellafield	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun Reading (Kennet) Aldermaston Outfall (Grand Union Canal) Waterside Canal River Derwent (downstream) Lopwell Reading (Kennet) Aldermaston Stream draining south Upstream of outfall (Grand Union Canal) 2 Canal Caerhun	2 4 4 2 4 4 3 2 1 4 2 4 4 4 2 2	<3.1 <1.0 <1.4 <0.80			$\begin{array}{c} 33\\7.7\\<0.90\\<13\\6.0\\430\\\\8.0\\6.3\\<2.1\\35\\16\\<10\\\\5.4\\<3.9\\<2.8\\10\\11\\220\\\end{array}$	<25			75 <1. <2. <2. <1. <1.6 51
4	Devonport Dungeness Harwell Sellafield Aldermaston Amersham Bradwell Cardiff Derby Devonport Aldermaston Amersham Cardiff Sellafield Aldermaston	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhum Reading (Kennet) Aldermaston Outfall (Grand Union Canal) Waterside Canal River Derwent (downstream) Lopwell Reading (Kennet) Aldermaston Stream draining south Upstream of outfall (Grand Union Canal) 2 Canal	2 4 4 2 4 4 3 2 1 4 2 4 4 4 2 2 4 4 4 4 4 2 2 4	<3.1 <1.0 <1.4 <0.80			$\begin{array}{c} 33\\7.7\\<0.90\\<13\\6.0\\430\\\\8.0\\6.3\\<2.1\\35\\16\\<10\\\\5.4\\<3.9\\<2.8\\10\\11\end{array}$	<25			75 <1. <2. <2. <1. <1. 1.6
)4	Devonport Dungeness Harwell Sellafield Aldermaston Amersham Bradwell Cardiff Derby Devonport Aldermaston Amersham Cardiff Sellafield Aldermaston Amersham Cardiff	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhum Reading (Kennet) Aldermaston Outfall (Grand Union Canal) Waterside Canal River Derwent (downstream) Lopwell Reading (Kennet) Aldermaston Stream draining south Upstream of outfall (Grand Union Canal) 2 Canal Caerhun Reading (Kennet) Upstream of outfall (Grand Union Canal) 2 Canal	2 4 4 2 4 4 3 2 1 4 2 4 4 4 2 2 4 4 2 2 4 2 2	<3.1 <1.0 <1.4 <0.80 <1.5	<1.4		$\begin{array}{c} 33\\7.7\\<0.90\\<13\\6.0\\430\\\\8.0\\6.3\\<2.1\\35\\16\\<10\\\\5.4\\<3.9\\<2.8\\10\\11\\220\\\\<3.9\\6.2\\9.1\end{array}$	<25			75 <1. <2. <2. <1. <1.6 51
	Devonport Dungeness Harwell Sellafield Aldermaston Amersham Bradwell Cardiff Derby Devonport Aldermaston Amersham Cardiff Sellafield Aldermaston	Canal West of pipeline Lopwell Pilot Sands Appleford Day's Lock Caerhun Reading (Kennet) Aldermaston Outfall (Grand Union Canal) Waterside Canal River Derwent (downstream) Lopwell Reading (Kennet) Aldermaston Stream draining south Upstream of outfall (Grand Union Canal) 2 Canal Caerhun Reading (Kennet) Upstream of outfall (Grand Union Canal) 2	2 4 4 2 4 4 3 2 1 4 2 4 4 4 2 2 4 4 4 4 4 2 2 4	<3.1 <1.0 <1.4 <0.80 <1.5 <1.0	<1.4		$\begin{array}{c} 33\\7.7\\<0.90\\<13\\6.0\\430\\\\8.0\\6.3\\<2.1\\35\\16\\<10\\\\5.4\\<3.9\\<2.8\\10\\11\\220\\<3.9\\6.2\end{array}$	<25			75 <1. <2. <2. <1. <1.6 51

	Page, Section	Comment							
RIFE-12 2006	70, Table 2.17	The concentration have been 29.	of ²⁴¹ Am in v	vinkles at	t Drigg sl	hould			
	103, Section 4	Line 22 second co	lumn						
	Key points	replace with							
		• Ât Dungeness, de	ose from gas	eous disc	harges i	ncrease	d.		
	187, Figure 8.5	The range in the k	ey should ha	ve been 2	2 to 8.				
RIFE-13 2007	127, Table 4.5a	The ^{210}Po and ^{210}Pb results are the wrong way round for South G winkles. ^{210}Po should be 11 and ^{210}Pb should be 0.46 Bq kg^-1							
	153, Table 5.1	Derby, the total ex of sediment and w <0.005 mSv.	-	-		akes			
	161, Section 6	Line 17 second column should read							
	Key points	• The total dose of	0.008						
	239, Appendix 5	Line 3 first colum							
		indicated that it	was likely t	here wou	ld be no	adverse	e impact		
RIFE-14 2008	12, Figure S1	Both bars for Brad The bar for exposu			-				
	33, Section 2	Springfields, doses to the public Lines 1 & 2 second column should read pathways from gaseous discharges were less than 0.005mSv which was less than 0.5 per cent							
	51, Figure 2.22	The bar for White as the bar for 2007		08 should	l have be	en the	same height		
	109, Section 4	Gaseous discharge	es and terres	trial mon	itoring				
		Line 28, first colu			U U				
		The results of more	nitoring for 2	2008					
	167, Table 6.3a	Results for Cardif	f East WWI	W shoul	d have b	een:			
	Material	Location or selection ^{b}	No. of sampling	Mean rad	ioactivity co	ncentration	n (fresh) ^a , Bq kg ⁻¹		
			observ- ations ^c	Organic ³ H ^e	³ H	${}^{3}\mathrm{H}^{\mathrm{f}}$	¹⁴ C		
	Terrestrial samples								
	Crude effluent	Cardiff East WWTW	3e	<150	<220	82	<11		
	Final effluent	Cardiff East WWTW	3е	<60	<70	80	<11		
	Sludge pellets	Cardiff East WWTW	3e		76000		740		
	Solids from crude effluent	Cardiff East WWTW	3е		<7500		<1800		
	225, Table A2.2	Sellafield (sea pipe read 2 10 ⁴	elines) Tritiu	m discha	rge limit	should	have		

	Page, Section	Comment		
RIFE-15 2009	233, Table A2.1	MoD Coulport under reported discharges for the end of 2009. The ³ H discharge for 2009 should have been 3.40 E-03 TBq.		
RIFE-16 2010	37, Section 2	Line 13, paragraph 3, second column should read The dose to wildfowlers and farmers from exposure over salt marsh was 0.032 mSv, which was less than 4 per cent of the dose limit for members of the public of 1 mSv. The small decrease in dose from 0.036 mSv (in 2009) was due to lower gamma dose rates over marsh in 2010.		
	100, Section 3	The graph in Figure 3.2 is missing 2010 data. The data for 2010 is shown in Figure 3.2 RIFE 17		
	122, Section 4	Line 7, paragraph 1, first column should read An increase in the fish and crustacean consumption rates has been observed, together with a decrease in the mollusc and occupancy rates, in comparison with those of the previous survey reported in 2006.		
	Appendix 1, Annex 2	Table X2.2 Sellafield Group N winkle consumption should have said 15kg y ⁻¹ (not 18 kg y ⁻¹)		
RIFE-11 2005	270, Table A7.2B	Trawsfynydd, should read Prenatal children of occupants over sediment	d 0.008	Direct radiation, gamma dose rate over sand/stone
RIFE-12 2006	234, Table A4.2B	Trawsfynydd, should read Prenatal children of fish consumers	d 0.013	Fish, gamma dose rate over sediment, ⁹⁰ Sr
RIFE-13 2007	236, Table A4.2B	Trawsfynydd, should read Adult fish consumers	d 0.014	Fish, gamma dose rate over sediment, ⁹⁰ Sr, ¹³⁷ Cs, ²⁴¹ Am
RIFE-14 2008	236, Table A4.2B	Trawsfynydd, should read Adult fish consumers	d 0.010	Fish, gamma dose rate over sediment, ⁹⁰ Sr, ¹³⁷ Cs, ²⁴¹ Am
RIFE-15 2009	249, Table A4.2B	Trawsfynydd, should read Adult fish consumers 0.012 Fish, gamma dose rate over sediment, ⁹⁰ Sr, ¹³⁷ Cs, ²⁴¹ Am		
RIFE-16 2010	30, Table 1.2B	Trawsfynydd, should read Adult fish consumers	d 0.012	Fish, gamma dose rate over sediment, ⁹⁰ Sr, ¹³⁷ Cs, ²⁴¹ Am