1	Monday, 13 June 2016	1	would not I think be of great assistance to those who
2	(10.30 am)	2	have come to see what the proceedings are. But it's
3	Housekeeping	3	important to say openly that there are written
4	MR JUSTICE BLAKE: Good morning.	4	proceedings. These cases are of vital importance to the
5	MR TER HAAR: Good morning, my Lord.	5	individual appellants who I represent and are
6	My Lord, as you know, this is the first day of the	6	represented by those behind me, and also raise very
7	appeal of two groups of appellants in relation to what	7	important issues as to what happened in this nuclear
8	occurred at Christmas Island some 50 years ago.	8	testing programme which took place all those years ago.
9	There are people in this court who are, I think, new	9	But subject to the Tribunal's directions, I am not
10	to the matter, so can I start first of all by	10	intending today to expand upon what is in those written
11	introducing myself. My name is Roger ter Haar. I am	11	submissions but of course I am here to answer any
12	leading counsel for what has been known as the	12	questions that you might find helpful.
13	Hogan Lovells group of appellants, the group of 12	13	MR JUSTICE BLAKE: Well, thank you.
14	appellants.	14	What provisionally we imagine we could spend the
15	I appear with Mr Sage and	15	next hour or so doing is first some issues of
16	MR JUSTICE BLAKE: You are operated by cardboard boxes but	16	housekeeping and whether we have now got all that we
17	you are together in spirit.	17	should have. There was quite a lot of traffic,
18	MR TER HAAR: We are together in spirit. Nothing, even	18	electronic and otherwise, last week and I am by no means
19	cardboard, can come between us.	19	confident that everything has got into its place,
20	,	20	
	In those appeals, Mr Adam Heppinstall and Ms Cohen		although a great deal has, although that slightly
21	appear for the Secretary of State.	21	interrupted the reading process.
22	In the other group of appeals, two appeals, behind	22	Then there is a preliminary issue, not I think
23	me are Dr Busby and Mr Charlton, who are going to be	23	concerning you directly
24	conducting those appeals on behalf of those appellants.	24	MR TER HAAR: I take a neutral position on that.
25	As the Tribunal, will have seen, sadly Group Captain	25	MR JUSTICE BLAKE: about Mr Williams and what appears to
	Page 1		Page 3
	1,100		1 1,50 0
1	Ades who was going to be conducting the matter	1	be meteorological evidence that we would like to hear
2	MR JUSTICE BLAKE: Yes.	2	Mr Busby on, and indeed Mr Heppinstall. Thank you for
3	MR TER HAAR: was taken ill last week. I am happy to say	3	the skeleton which I anticipate you have provided to
4	it has not proved mortal. He is in hospital I gather	4	others.
5	still undergoing tests, clearly unable to be here.	5	And then we get underway, it seems, with the
6	MR JUSTICE BLAKE: I know Judge Whiteley expressed his best	6	evidence. If you are content to leave your written
7	wishes, and we wanted to associate ourselves with that,	7	opening statement in writing does the draft timetable
8	for his recovery. I'm sorry not to see him but glad to	8	have a common consensus attached to it?
9	hear he is well.	9	MR TER HAAR: The answer is you have a draft timetable. The
10	MR TER HAAR: I think we also share in that. He has always	10	latest version I saw takes us through the first two
11	been immensely courteous and helpful whenever I have had	11	weeks.
12	any engagement in this matter.	12	MR JUSTICE BLAKE: Yes.
13	MR JUSTICE BLAKE: Yes.	13	MR TER HAAR: So far as those are concerned, we are very
14	MR TER HAAR: My Lord, you will have seen, I hope, or the	14	content with that, it seems realistic. There is a blank
15	Tribunal will have seen that in accordance with the	15	doing the second Friday which we may or may not achieve.
16	Tribunal's directions there are written opening	16	MR JUSTICE BLAKE: Yes.
17	statements.	17	MR TER HAAR: But we are going to make sure, so far as we
18	MR JUSTICE BLAKE: Yes.	18	are concerned, that our part in this will be concluded
19	MR TER HAAR: And whilst those sitting in the public	19	on the evidence by the end of the second week.
20	gallery, as we would say in other courts, might not have	20	MR JUSTICE BLAKE: Yes.
21	had the opportunity of reading them, we know the	21	MR TER HAAR: We regard that as a fixed timetable, to which
22	Tribunal has. Therefore, I rather take the view,	22	we will adhere.
23	subject to the Tribunal's views, that the matters in	23	MR JUSTICE BLAKE: Yes.
24	issue are so complex that to attempt to summarise them	24	MR TER HAAR: I have a request in respect of the following
25	would not be of great assistance to the Tribunal and	25	week. That's the week which we have thought of for
			_
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1	submissions in the interlocutory hearing. For different	1	or examination and we can focus upon the main issues may
2	reasons, Mr Sage and myself have difficulties on the	2	be a helpful exercise and I imagine you would need some
3	Monday. Were it possible for the Tribunal not to sit on	3	time to prepare that.
4	the Monday, that would be very gratefully received by	4	So I'm perfectly sympathetic to Monday, 27 June
5	us.	5	being a day not sitting but other teams might be wanting
6	MR JUSTICE BLAKE: Yes.	6	
7	MR TER HAAR: As to the Friday of that week, that's the last	7	to think about how to present final submissions.
8	day, I at the moment am committed to sit in another	8	If that means that well, we'll see how we go,
9		8 9	whether four days will then be sufficient.
10	court in this building.		As you know, we are going to be constituting for the
11	MR JUSTICE BLAKE: I will not be sitting on the Friday is that the 8th?	10	following week, the week of July, but that's in order to
12	MR TER HAAR: That's the 1st.	11	think and have our own discussion before we go our
13		13	separate ways.
13	MR JUSTICE BLAKE: Sorry, I jumped ahead. No, no, Friday	14	MR TER HAAR: I understand that.
15	the 8th is always	15	MR JUSTICE BLAKE: One of us will be here until the end of
16	MR TER HAAR: That was always after this oral phase was	16	term working on this.
	OVER.		MR TER HAAR: We will talk certainly among ourselves as to
17	MR JUSTICE BLAKE: That's when your work may have finished	17	what we can do to assist. That sounds, not
18	and our work certainly won't have.	18	surprisingly, a very sensible suggestion and we will see
19	MR TER HAAR: Mr Sage can be available on that day. We	19	what we can do to implement it.
20	think our submissions will be completed by then, subject	20	MR JUSTICE BLAKE: Yes.
21 22	to any questions the Tribunal may have.	21 22	MR TER HAAR: I think the only other matters I would mention
	MR JUSTICE BLAKE: So the suggestion is not to sit on the		before the Tribunal's list of housekeeping is that there
23	27th?	23	are shorthand writers so we have a transcript being
24	MR TER HAAR: If that is convenient to the Tribunal.	24	prepared.
25	MR JUSTICE BLAKE: On my shopping list which I'll introduce	25	MR JUSTICE BLAKE: Who is providing that?
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1	into the housekeeping side of it, it occurred to me that	1	MR HEPPINSTALL: The Secretary of State.
2	it would probably be helpful for us, when we have to	2	MR JUSTICE BLAKE: Thank you very much.
3	absorb all that has been gone through, if there was some	3	MR TER HAAR: The Secretary of State has also been primarily
4	form of a Scott schedule that could inform closing	4	in charge of the bundles so if the Tribunal has any
5	submissions. If it's not going to be possible, it's not	5	questions on the bundles I am going to neatly deflect
6	going to be possible but I think some thinking, and it	6	the ball in Mr Heppinstall's direction because I think
7	will certainly take some time for reflection which	7	he will be much more master of the changes which took
8	certainly could happen on the Monday, if not the	8	place in the last couple of days
9	previous Friday, of the core submissions what makes	9	MR JUSTICE BLAKE: I anticipated that so I wasn't going to
10	either dosimetry difficult to make an assessment upon or	10	fire any difficult questions to you on that.
11	you are asking the wrong questions in order to make the	11	MR TER HAAR: Otherwise, so far as this week is concerned, I
12	assessment, which would then have, in respect of each	12	think we are principally going to be spectators rather
13	appellant, just the page references in the bundle,	13	than participators.
14	nothing else, by way of analysis, the counter-page	14	MR JUSTICE BLAKE: I suspect that's right.
15	references and the core points to and fro, in a bullet,	15	MR TER HAAR: Unless there's anything else with which I can
16	if it was no more than 10/12 pages. That could be	16	assist today
17	a working document, if only to ensure that when we come	17	MR JUSTICE BLAKE: We have Hogan Lovells' SB20 or 21
18	to do our analysis we don't miss anything out that	18	I forget the numbering which was the academic papers.
19	anybody considers important because the longer this	19	I think those arrived on Friday. I haven't even
20	material is in terms of case statements, skeleton	20	attempted to read them and I'm behind on my reading but
21	arguments, opening statements, go back to 5 years ago,	21	I've done the core reading.
22	find a bit there, put that to there, it becomes quite	22	MR TER HAAR: We gave you a rather terrifying reading list.
23	an interesting or challenging search. To have something	23	MR JUSTICE BLAKE: I realise I should have had a month for
24	which everyone thinks at the end of the day we can	24	reading it rather than a week, but there we are.
25	exclude what may have disappeared by cross-examination	25	Thank you.
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1	So on the question of transcripts, the idea is that	1	Yes, SB21.
2	we will get a transcript of the evidence from time to	2	As far as you know, everything has been supplied
3	time.	3	pre-equipped in the dividers or there's a DIY
	MR HEPPINSTALL: It's evening delivery system as I	4	
4			MR HEPPINSTALL: Yes, but if there is anything that has
5	understand. That will probably mean it will come in the	5	slipped we will rectify it.
6	morning but we will try our best to deliver it.	6	MR JUSTICE BLAKE: I thought that one was probably rather
7	MR JUSTICE BLAKE: That can be done electronically?	7	important.
8	MR HEPPINSTALL: Indeed. I suspect we'll get a Word and	8	MR HEPPINSTALL: Yes, that one ought to be in there.
9	a PDF version.	9	MR JUSTICE BLAKE: Right.
10	MR JUSTICE BLAKE: You all have my clerk's e-mail address?	10	Secondly, on the issue of Mr Battersby, there is at
11	MR HEPPINSTALL: I have.	11	the moment, I think, in my mind at least, and I think my
12	MR JUSTICE BLAKE: Probably rather than going to Fox House	12	colleagues share it, some confusion as to the issues.
13	and then back here, it is probably preferable	13	We understand that his pancreatic cancer was the subject
14	MR HEPPINSTALL: Yes, a more direct route.	14	of an award.
15	MR JUSTICE BLAKE: to do that. Yes.	15	MR HEPPINSTALL: That's right, my Lord, yes. Between the
16	So on bundles	16	first FTT decision and the appeal resetting the world,
17	MR HEPPINSTALL: Yes, my Lord.	17	as it were, there was an award to Mr Battersby.
18	MR JUSTICE BLAKE: I'm not in a position to say whether	18	MR JUSTICE BLAKE: Right. Do we infer from that that it is
19	everything that ought to have been slotted in has been,	19	accepted that there was a reasonable doubt as to
20	although I think a number of things are, when I could	20	causation between his pancreatic cancer and his service
21	see what it was, but reviewing the matter and this is	21	at Maralinga?
22	only a partial review of the supplementary bundles,	22	MR HEPPINSTALL: On the basis of the FTT's judgment, yes.
23	I haven't even attempted to look at the library	23	But that doesn't necessarily carry forward now that the
24	documents which are over there I noticed that on	24	matter has been reviewed and the Secretary of State has
25	volume 2 in Mr Hallard I seem to have a blank tab at	25	new experts.
	Page 9		Page 11
1	2/15. I suspect I shouldn't have done.	1	MR JUSTICE BLAKE: That's too subtle for me. There was
2	MR HEPPINSTALL: That's the supplementary report you are	2	an award based upon reasonable doubt, but you now want
3	missing.	3	to say
4	MR JUSTICE BLAKE: Yes.	4	MR HEPPINSTALL: Well
5	MR HEPPINSTALL: We'll have that	5	MR JUSTICE BLAKE: Are we concerned only with the medical
6	MR JUSTICE BLAKE: I mean, was that something, a DIY	6	issue as to whether CLL or the relevant leukaemia,
7	MR HEPPINSTALL: I think so. There were a couple of rounds	7	chronic lymphatic leukaemia, is caused by Maralinga or
8	of that last week or maybe even the week before and that	8	are we concerned with the whole issue? Because if
9	was including one of the packs I received. So	9	that's all that's left on Maralinga that might
10	I apologise if	10	MR HEPPINSTALL: No, it's just that forgive me the
11	MR JUSTICE BLAKE: Right.	11	award for pancreatic cancer stands, it was made between
12	MR HEPPINSTALL: It may be somewhere between here and Fox	12	the first First Tier Tribunal and the Upper Tribunal.
13	Court.	13	No one is reversing that or taking it away in any sense.
14	MR JUSTICE BLAKE: It looks like we are all in that	14	The finding on the fact that (inaudible) paid
15	position.	15	that shouldn't mean that the appellants don't have to
16	MR HEPPINSTALL: Right.	16	prove their case on any other pancreatic cancer, as
17	MR JUSTICE BLAKE: I just don't know whether there are other	17	I think there may be one other
18	things missing towards the end but	18	MR JUSTICE BLAKE: Quite.
19	MR HEPPINSTALL: Well, you should now run from SB1 down to	19	MR HEPPINSTALL: So Secretary of State's position today is
20	SB21.	20	• • • • • • • • • • • • • • • • • • • •
	MR JUSTICE BLAKE: Yes. Those were the last two		that pancreatic cancer is not radiogenic; that's the
21		21	expert advice it has. A different decision was made on
22	Hogan Lovells	22	the basis of the case of Williams, which was the one
23	MR HEPPINSTALL: Yes.	23	appeal which succeeded before the first Tribunal, and
24 25	MR JUSTICE BLAKE: I think they are somewhere around here.	24 25	based on that finding and consistent with the
	Lat ma just get my moster index, placea	1 75	Secretary of State's at that time position that it would
23	Let me just get my master index, please.	23	Secretary of State's at that time position that it would
23	Page 10	23	Page 12

1	implement if you like the first First Tier Tribunal's	1	this case, of course, is divorced from the language one
2	decision, it was implemented in the case of	2	would use in a normal case because we are not dealing
3	Mr Battersby.	3	with what the Secretary of State admits as fact or what
4	So what remains in his case	4	the Secretary of State's public position is on the test;
5	MR JUSTICE BLAKE: Did Williams ever go on appeal to the	5	we are dealing with the test as laid down by Mr Justice
6	Upper Tribunal?	6	Charles, which is to deal in possibilities.
7	MR HEPPINSTALL: Williams didn't, no. He had his war	7	And you'll see that Mr Hallard has admitted into his
8	pension and there was no cross appeal. Consistent with	8	dose assessment of the upper limit all the possibilities
9	the Secretary of State's policy that once you have your	9	that Mr Battersby has alleged, including something that
10	war pension it is not something the Secretary of State	10	the Secretary of State does not and has never accepted,
11	wants to take away.	11	that he worked in the active handling flight.
12	MR JUSTICE BLAKE: I'm sure that's right and I am sure you	12	Now, notwithstanding that the Secretary of State
13	can't, if you didn't appeal against it. Well, "sure"	13	accepts that if you like as his public position, because
14	may be too strong a word.	14	of the way Mr Justice Charles has drawn the approach, we
15	But what's going on? If there is an acceptance that	15	can't rule it out as a possibility and therefore it's
16	pancreatic cancer at Maralinga was on the basis of an	16	gone through.
17	FTT decision	17	In fact Mr Hallard has gone one step further and he
18	MR HEPPINSTALL: Mr Williams was on Christmas Island, and	18	is giving you an assessment based on washing down the
19	the finding of the first First Tier Tribunal was that he	19	six least contaminated planes and the six most
20	may have had more than average background environmental	20	contaminated planes, so it's the upper upper limit. So
21	exposure because he did	21	all that has gone into the assessment and out comes the
22	MR JUSTICE BLAKE: Okay.	22	upper limit of dose. So the question then is: even at
23	MR HEPPINSTALL: Yes.	23	that upper limit, is there causation of CLL? And our
24	MR JUSTICE BLAKE: So there are dosimetry issues relating to	24	position is as a matter of principle CLL is not
25	that award.	25	radiogenic.
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1	MR HEPPINSTALL: Exactly.	1	MR JUSTICE BLAKE: We have to track through what happened at
2	MR JUSTICE BLAKE: But nevertheless pancreatic cancer would	2	Maralinga with the same degree of scrutiny as we are
3	be radiogenic.	3	going to have to track through Christmas Island then?
4	MR HEPPINSTALL: Yes, yes.	4	MR HEPPINSTALL: I hope that you don't have to track through
5	MR JUSTICE BLAKE: So	5	any of the appellants. I hope that the
6	MR HEPPINSTALL: The Secretary of State's position on	6	cross-referencing document makes it clear that in terms
7	pancreatic cancer now is that it's not radiogenic, and	7	of the risk factors, the pathways, apart from I think
8	we may or may not discuss that going forward because	8	Mr Hughes and some sort of dummy run test that he
9	I understand that Mr Butler very unfortunately has	9	alleges happened, which we cannot accept on
10	passed away with that condition. I'm unaware whether	10	a possibility basis, all the other possibilities have
11	a new claim has been made in respect of that and I'm	11	gone forward into Mr Hallard's
12	further unaware whether Secretary of State has made	12	MR JUSTICE BLAKE: I appreciate that. I appreciate there is
13	a decision. It's only on making a decision that a right	13	going to be a debate about how you calculate and whether
14	of appeal would arise. So to be clear, the	14	you can calculate and whether you are using the right
15	Secretary of State's position in these appeals is that	15	protection test.
16	pancreatic cancer is not radiogenic.	16	MR HEPPINSTALL: Yes.
17	Then in Mr Battersby's case	17	MR JUSTICE BLAKE: But to some extent the pre-reading of the
18	MR JUSTICE BLAKE: Well, he is not concerned with pancreatic	18	last week persuaded me that in order to understand these
19	cancer, he is concerned with CLL.	19	pathways and the possibilities of exposure one has to
20	MR HEPPINSTALL: CLL.	20	understand what was going on and the nature of the
21	MR JUSTICE BLAKE: Your case there is it's not radiogenic.	21	military activity or the testing, and the difference
22	MR HEPPINSTALL: It's not radiogenic.	22	there seem to be significant differences between the
23	MR JUSTICE BLAKE: Is it also your case that he was not	23	devices at Maralinga and at Christmas Island.
24	exposed to	24	MR HEPPINSTALL: Absolutely, my Lord.
25	MR HEPPINSTALL: No, no well, because the language of	25	MR JUSTICE BLAKE: But all of that is still live if CLL
23	men, occase the language of	23	Sorres ser and of that is suff five if CEE
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4 (Pages 13 to 16)

1	non-radiogenic, and we say, and you say, even if some	1	MR HEPPINSTALL: In addition to that, obviously we also pass
2	CLLs could be radiogenic in certain circumstances, which	2	on our good wishes to Mr Ades and
3	is not a submission you make but even if we thought that	3	MR JUSTICE BLAKE: Sorry, I missed that.
4	that was still within the realms of the possible it's	4	DEFENCE: We pass on our good wishes to Mr Ades. I think
5	not these circumstances because dosimetry doesn't show	5	Mr Verma has written to him.
6	sufficient exposure.	6	In addition, I am sure we will all lapse into using
7	MR HEPPINSTALL: What I don't yet know, and hopefully we	7	surnames and shorthand for the veterans and the
8	will know at least by the end of two weeks, is whether	8	appellants, including for those who have sadly passed
9	the Battersby/Smith appellants are saying that	9	away. Obviously no disrespect is intended to any of the
10	Mr Hallard has missed something out. I mean on	10	veterans or their relatives in so doing. It's just that
11	Battersby he has gone to the	11	in the course of legal argument and cross-examination we
12	MR JUSTICE BLAKE: We don't have to go there. We'll find	12	may refer to them by their surnames rather than their
13	out	13	full names.
14	MR HEPPINSTALL: I would have thought then that would be the	14	MR JUSTICE BLAKE: Yes. That does remind me of one thing
15	only factual difference between us.	15	that Mr ter Haar can help me on. I think in the Lovells
16	I appreciate the Tribunal will want to read the	16	skeleton or statement of case, I know that a number of
17	background and understand what happened. I understand	17	the servicemen as they were have died. Are their widows
18	that, but in terms of the forensic difference between us	18	all with us? Because I wasn't clear whether they had
19	I hope, particularly with the Hogan Lovells' appellants,	19	died as well.
20	the cross-referencing document shows that on the	20	MR TER HAAR: The answer is no. Can I hand up a list at
21	individual facts of what the appellant did, saw and	21	a convenient moment?
22	experienced, apart from I think one single issue with	22	MR JUSTICE BLAKE: I would be grateful, just to make sure
23	Mr Hughes, there's nothing between us. They were only	23	I get it right.
24	cross-examined lightly on the first occasion. They are	24	MR TER HAAR: Thank you.
25	not here to give evidence on the second occasion.	25	MR HEPPINSTALL: I can confirm, apart from the new claim
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	Ö		O
1	MR JUSTICE BLAKE: I think the nature of the issues between	1	I think being made by Mr Butler's widow, all the appeals
2	that group and the Battersby/Smith group is different.	2	are properly constituted, so where there has needed to
3	MR HEPPINSTALL: Yes.	3	be a new appeal going in by a widow or a continuation of
4	MR JUSTICE BLAKE: But the appellant I am asking you about	4	an in life appeal, I think Mr Battersby's next of kin
5	falls into the second group.	5	MR JUSTICE BLAKE: If the serviceman has died and the widow
6	MR HEPPINSTALL: Yes.	6	has died then the claim is continued by the estate.
7	MR JUSTICE BLAKE: Yes, right.	7	MR HEPPINSTALL: Exactly. DBS, that is the relevant MoD
8	Well, are there any other housekeeping matters that	8	agency, has ensured that all the appeals are properly
9	are going to affect the next few days that you want to	9	constituted before the Tribunal.
10	raise?	10	MR JUSTICE BLAKE: Very good. Shortly we will then deal
11	MR HEPPINSTALL: We hope that we have captured most of the	11	with Mr Williams and expert evidence. But before we get
12	important documents in the SB bundles. When	12	there, Mr Busby you would have seen that I issued some
13	I cross-examine over the next week, I think there are	13	further directions on Friday which direct a preliminary
14	three or four documents that have fallen outside of the	14	hearing about Mr Williams, that's item 1. You will see
15	SBs and are in your library but because they're such	15	that paragraph 2 deals with the application of
16	a low number we will just hand round copies of those	16	Mr Justice Charles' ruling, although I'm not sure
17	documents, so we don't have to go flying for the	17	whether that followed an oral hearing. And paragraph 4
18	library. We will just hand them round and maybe we can	18	seeks to clarify what I think we discussed last time we
19	find a convenient place and description in due course.	19	all met, which is that under the timetable,
20	MR JUSTICE BLAKE: The document-retrieving functions you are	20	evidence-in-chief will take the form of tendering your
21	going to undertake, given by where you sit, will	21	witness with their witness statements and supplementary
22	probably reduce.	22	questions should be restricted to corrections,
23	MR HEPPINSTALL: Well, that was my guess. So there are only	23	amendments and clarification. Do you follow?
			DR DIJORY I A H
24	a few in number and we will just hand them up.	24	DR BUSBY: I follow what you said, my Lord.
24 25		24 25	DR BUSBY: I follow what you said, my Lord. MR JUSTICE BLAKE: Yes, and that is the way that I propose
	a few in number and we will just hand them up.	1	• • • •

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1	to deal with it at the moment.	1	cross-examine they can make clear what they need
2	That then raises the question that this afternoon,	2	assistance from. If he then needs to use the PowerPoint
3	I think, we are going to hear from Professor Sawada.	3	to put up these graphs, for example, that seems to be
4	DR BUSBY: That's right.	4	a possible reason, but I'm somewhat reluctant well,
5	MR JUSTICE BLAKE: Now I know that you wanted a PowerPoint	5	I am reluctant and it's inconsistent with the
6	and screen, and we have that arranged, but I am entirely	6	direction to, as it were, hear de novo pieces of primary
7	unclear as to what use is to be made of that because we	7	evidence on interpretation of these PowerPoint slides if
8	have a set of PowerPoint presentations attached to his	8	it deals with matters which are not already there.
9	report at tab 2.6, but those, insofar as they are	9	DR BUSBY: Well, my Lord, it's not de novo evidence, it's
10	relevant to the issues and I confess I have some	10	merely an elucidation of what it was he has already put
11	doubts as to some of them would form part of his	11	in.
12	evidence-in-chief, and others have a lot of Japanese in	12	MR JUSTICE BLAKE: That's the risk. If you are going over
13	them, which is difficult.	13	and he is adding things which aren't already there
14	Is it your intention to supplement his evidence by	14	
15	a presentation of some form?	15	either he is adding things which aren't already there,
16	DR BUSBY: My Lord, the Secretary of State was concerned		in which case that's not what I want, or he's just
17	about the complexity of Professor Sawada's evidence, and	16 17	repeating what is already said, in which case there's no
18		1	point unless the respondent wants to cross-examine about
	he himself felt it would be helpful if he were to be	18	it.
19	permitted to either give a PowerPoint presentation in	19	I have to say I got an e-mail this morning which
20	order to illuminate what it was he was saying, make it	20	I think probably contained these slides but it came from
21	more easy, because it is a complex issue for everyone to	21	the Government Legal Service and I wasn't sure whether
22	understand, and because we didn't know that we would be	22	the Government wanted to cross-examine.
23	able to get a projector we actually printed his	23	DR BUSBY: Well, we'll have to ask them.
24	PowerPoint presentation and we've handed out copies to	24	MR JUSTICE BLAKE: Just take a second to clarify that. Is
25	all of the parties.	25	it you who wanted these slides
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1	MR JUSTICE BLAKE: But that's including the ones with the	1	MR HEPPINSTALL: No, I think that was for assistance, we
2	photographs	2	were just being helpful.
3		3	MR JUSTICE BLAKE: It looked like you were wanting the
4	DR BUSBY: Yes that's the stuff we brought in this morning, my Lord, yes. We have three copies here. My daughter	4	PowerPoint to be available.
_	will let you have those (Handed).	5	MR HEPPINSTALL: Well
5 6	MR JUSTICE BLAKE: This is something new. I have slotted	6	MR JUSTICE BLAKE: Do you want to ask Professor Sawada about
7	in an August 2010 Bomb Survivors Association	7	these graphs?
8	presentation. I thought that was what I was putting in.	8	MR HEPPINSTALL: No. It's a matter for Dr Busby how he
9	DR BUSBY: That was the original thing that we sent in, my	9	presents his case. I have to say that I remain
		10	
10	Lord, but since then he has helpfully provided	11	perplexed, especially by the imagery. MR JUSTICE BLAKE: Well, that's simply not going to happen,
11	MR JUSTICE BLAKE: We take that out, do we?	12	those photographs. I am taking them out. I appreciate
12	DR BUSBY: Yes, and just supplant it with these ones that	13	
13	we've handed you there, sir.	14	these are emotive issues and I will understand why
14	They are effectively the same. It's just that they	1	Professor Sawada would feel the way he does, and it's no
15	are nicer, they are posher. We've made them bigger and	15	comment about his feeling, but we've really got to keep
16	more colourful and put them on nicer paper too.	16 17	out the heat and turn up the light. That's the object
17	MR JUSTICE BLAKE: Sorry, I am not having these first few	18	of this hearing. DR DUSDY: Thenk you my Lord. With record to turning up.
18	images. What is he seeking to do by these PowerPoints?	19	DR BUSBY: Thank you, my Lord. With regard to turning up
19	DR BUSBY: He is seeking to provide evidence to the	20	the light and turning down the heat, Mr ter Haar said
20	Tribunal	20 21	that he didn't propose to make an opening statement.
21	MR JUSTICE BLAKE: He has done that in a written report,	21 22	However, there are a number of people here who have come
22	yes?		to the Tribunal at the back here, who are unaware of the
23	DR BUSBY: He wasn't sure whether the respondent understood	23	process as it has gone on in the past and is going on at
24	what it was he was saying.	24 25	the moment. MR JUSTICE BLAKE: I don't think these graphs are going to
25		. / >	IVIN TURN IT E BLANE: LOOD LIBING THESE GRADDS ARE GOING TO
25	MR JUSTICE BLAKE: If the respondent is going to	23	microstrez szinz. Tudir umm mede grapho are going to
25	Page 22	23	Page 24

6 (Pages 21 to 24)

1	tell them that.	1	MR JUSTICE BLAKE: It just hasn't reached me. I'm pretty
2	DR BUSBY: No, my Lord. I've put that one to bed now.	2	sure I was in yesterday and I looked through e-mails.
3	MR JUSTICE BLAKE: I see. I only raised that under the	3	DR BUSBY: Mr Charlton will deal with this issue. It seems
4	section of housekeeping.	4	immodest for me to talk about myself. So if Mr Charlton
5	DR BUSBY: Very good.	5	can take over
6	MR JUSTICE BLAKE: So if you can just you will need to	6	MR JUSTICE BLAKE: Right. Well, I have the application.
7	have some chance to talk to him when you present his	7	I am going to hold that. Are you going to deal with the
8	evidence this afternoon, if you can look at those	8	legal issues about Mr Williams?
9	directions and ask questions if you need to before he is	9	MR CHARLTON: Yes, both, my Lord.
10	cross-examined, which clarify, supplement or correct.	10	MR JUSTICE BLAKE: Okay, excellent. Well, let's move on to
11	DR BUSBY: Perhaps we could go to certain of those during	11	that and then I will deal with this after we've dealt
12	that process, my Lord?	12	with that.
13	MR JUSTICE BLAKE: That's the direction. You will know what	13	MR CHARLTON: I am grateful, my Lord, yes, because before we
14	you need to ask that fits into those three limbs. If	14	get on to that we've had a word with Mr Heppinstall and
15	you need to do that by putting up a slide, but we're not	15	I think perhaps the position may be that we may be
16	going to just sit here and watch	16	managing to reach agreement on that, if I have
17	DR BUSBY: I understand	17	understood that right.
18	MR JUSTICE BLAKE: Obviously we've had it, but it doesn't	18	MR HEPPINSTALL: I can take that first if you want. On the
19	seem to us significant parts are not relevant.	19	Dr Busby issue, the Secretary of State recognises that
20	The next topic I was about to move on to was then	20	it is a difficult issue. There are a number of experts
21	the question of Mr Williams and expert evidence and	21	obviously apart from Dr Busby who are coming to the
22	meteorology. But do you have something to say? You	22	Tribunal to give evidence, one of which I think is
23	wanted to open	23	a co-author of a paper that was starred in the Busby
24	DR BUSBY: What I suggested might be helpful, my Lord, is	24	reading list as the key document.
25	that unlike Mr ter Haar I did want to make an opening	25	I think the Secretary of State's position is,
	that annother than 1 and many to make an opening	-	Tunnical socious of states position to,
	Page 25		Page 27
1	statement.	1	insofar as those experts are going to come into the
2	But the other two	2	witness box and attest to their own paper that they
3	MR JUSTICE BLAKE: How long do you think that will be?	3	happen to have co-authored with Dr Busby, it seemed to
			nappen to have co authored with Di Basby, it seemed to
4	DR BUSBY: Ten minutes.	4	me that subject to two important caveats which are (1)
4 5	DR BUSBY: Ten minutes. MR JUSTICE BLAKE: All right.		
		4	me that subject to two important caveats which are (1)
5	MR JUSTICE BLAKE: All right.	4 5	me that subject to two important caveats which are (1) where that has already been done, it's done and there's
5 6	MR JUSTICE BLAKE: All right. MR HEPPINSTALL: I apprehend from what my Lord is saying	4 5 6	me that subject to two important caveats which are (1) where that has already been done, it's done and there's no more referencing to Dr Busby's papers done merely out
5 6 7	MR JUSTICE BLAKE: All right. MR HEPPINSTALL: I apprehend from what my Lord is saying that my Lord may not have received an application to	4 5 6 7	me that subject to two important caveats which are (1) where that has already been done, it's done and there's no more referencing to Dr Busby's papers done merely out of convenience of finding a way of getting them in and
5 6 7 8	MR JUSTICE BLAKE: All right. MR HEPPINSTALL: I apprehend from what my Lord is saying that my Lord may not have received an application to vary your direction in respect of Dr Busby's there	4 5 6 7 8	me that subject to two important caveats which are (1) where that has already been done, it's done and there's no more referencing to Dr Busby's papers done merely out of convenience of finding a way of getting them in and (2) that obviously the Secretary of State will make
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			_
1	that issue.	1	the unfortunate tribunal to see what weight there is, in
2	MR HEPPINSTALL: I understand, my Lord.	2	this particular appeal I think there may be a case to
3	MR JUSTICE BLAKE: You have helpfully put in a clip which	3	limit expert evidence, opinion evidence, to opinions
4	says that, although I think the general position in	4	from recognised experts. That seems to be what
5	tribunals is that everything goes in, it's all a matter	5	Mr Justice Charles was doing, although I don't was
6	of weight and relevance, and I am conscious of the fact	6	that the outcome of a process? Was there argument with
7	that there is some statement to that even about expert	7	these authorities being put before them?
8	evidence in the handbook, or the Bench Book of the issue	8	MR HEPPINSTALL: Yes, the authorities Ikarian Reefer,
9	for the War Pensions and Armed Services Compensation	9	Meadows
10	Tribunal, and I think in fairness to Dr Busby I will	10	MR JUSTICE BLAKE: There was a debate.
11	read this next paragraph out.	11	MR HEPPINSTALL: The speed of delivery of these submissions
12	This is the starting point but it may not be the	12	belies the fact that they have been made before, both
13	finishing point:	13	before the FTT and the Upper Tribunal.
14	"Opinion evidence can be given by any person,	14	MR JUSTICE BLAKE: Were they made in writing or orally?
15	whether he is recognised or qualified as an expert or	15	MR HEPPINSTALL: Writing definitely in front of the Upper
16	not and so should not be dismissed out of hand by a	16	Tribunal. In fact there was a submission along these
17	tribunal but clearly, if given by a non-expert, will	17	lines also in respect of Dr Busby before the first First
18	carry less weight than if given by an expert."	18	Tier Tribunal.
19	Paragraph 12 of the Bench Book 2015 that I was	19	MR JUSTICE BLAKE: Well, I am not going to go back into the
20	supplied as part of my training into this when I took on	20	other
21	this role.	21	MR HEPPINSTALL: No, no. There is no need to.
22	However, you've pointed out that the Tribunal rules	22	MR JUSTICE BLAKE: I thought we needed to bring some of
23	permit the individual constitution to give directions to	23	these principles up into being. There we are.
24	restrict evidence so that it complies with the	24	You would say this is an appropriate case for the
25	principles of CPR 35 and the practice directions made	25	Tribunal to exercise its case management powers to
	Page 29		Page 31
1	thereunder. You cite Chandanmal where the Tax Chamber,	1	restrict opinion evidence to opinions from recognised
2	First Tier, reached that. You didn't in fact cite that	2	experts
3	in the division of the Tribunal which I am more familiar	3	MR HEPPINSTALL: Yes.
4	with, Immigration and Asylum, there was from its	4	MR JUSTICE BLAKE: who must explain their qualifications.
5	constitution a practice direction issued by the Senior	5	MR HEPPINSTALL: Yes, yes.
6	President of Tribunals in February 2010 incorporating	6	MR JUSTICE BLAKE: And you have Meadows in the bundle but
7	all the provisions of CPR 35.	7	I have extracted the relevant paragraph from it adopting
8	MR HEPPINSTALL: No, I didn't put it in front of you but I'm	8	what Mr Justice Cresswell said in the Ikarian Reefer,
9	aware of that.	9	and just in case Mr Busby wants to be reminded or
10	MR JUSTICE BLAKE: Yes. Often in asylum appeals a question	10	whoever is dealing with the matter:
11	of medical evidence as to whether the Istanbul Protocol	11	"(1) expert evidence should be an independent
12	has been complied with becomes a not inconsiderable	12	product of the expert, uninfluenced as to the form or
13	issue, but anyway, it's there and clearly that's	13	content by the exigencies of litigation; (2) provide
14	a strong indicator that in immigration and asylum, when	14	independent assistance by way of objective unbiased
15	you have expert evidence when you have opinion	15	opinion in relation to matters within his expertise
16	evidence it ought to meet the standards of CPR.	16	should never assume the role of an advocate. An expert
17	MR HEPPINSTALL: Yes.	17	witness should state the facts or assumptions upon which
18	MR JUSTICE BLAKE: The standards of CPR themselves reflect,	18	his opinion is based."
19	as you tell us in your skeleton, Ikarian Reefer, as	19	This is where part 2 may come in as to the nature of
20	endorsed in Meadows, Ikarian Reefer being a civil case	20	the articles.
21	and then Meadows was disciplinary about use of expert	21	It seems to me that when we come to Professor
22	evidence in criminal, and therefore you have to have	22	I don't know how you pronounce the name
23	appropriate experience before it should be admitted.	23	DR BUSBY: Schmitz Feuerhake, my Lord.
24	Now it seems to me that despite the general steer of	24	MR JUSTICE BLAKE: Schmitz Feuerhake, thank you very
25	tribunals that everything goes in and then it's up to	25	much, which we are going to get to later on, obviously
	Page 30		Page 32

8 (Pages 29 to 32)

1	she will give her opinion about what her opinion is.	1	you can use in this Tribunal because everything is
2	Then the Ikarian Reefer requires her to identify what	2	admissible. That's really what the three man or three
3	sources, I think outside her opinion, that she bases her	3	judge Upper Tribunal in the Hampshire case is saying.
4	opinion on. If she has co-authored an article with	4	If a Tribunal is going to attempt to rely on evidence
5	Mr Busby, then insofar as she is the co-author, well,	5	outside of an expert's expertise or a witness'
6	it's what she is telling us rather than what she wrote	6	expertise, it need to be very careful, it needs to
7	in an article that is important.	7	explain itself and it is an exercise fraught with
8	MR HEPPINSTALL: Yes, my Lord.	8	danger. So technically admissible, but highly
9	MR JUSTICE BLAKE: If she relies upon support for her	9	dangerous, for the reasons set out in Ikarian Reefer and
10	opinion by Mr Busby's evidence then that directly hits	10	Meadows and so forth.
11	the conflict with Mr Justice Charles' direction, as	11	MR JUSTICE BLAKE: But are you saying that we cannot say
12	I see it, which was in fairly broad terms, although I	12	that evidence which is not from an expert we propose to
13	was doing it from memory, we have it down there by any	13	exclude?
14	other means. I think we just need to maintain this	14	MR HEPPINSTALL: Well, Mr Justice Charles has given that
15	discipline of what is legitimate support for an opinion	15	direction. His direction in tribunal language is: no
16	expressed orally by a witness.	16	weight can be given to evidence from Dr Busby and
17	MR HEPPINSTALL: Well, I don't think there's much between	17	therefore the Tribunal should not receive it
18	us, my Lord, because my inelegant description of the	18	MR JUSTICE BLAKE: You think that's a direction on weight or
19	Secretary of State's position is not very far off what	19	admissibility?
20	you have just set out.	20	MR HEPPINSTALL: Well, we were very careful in the
21	MR JUSTICE BLAKE: Well, I just think we should play it out	21	Upper Tribunal only to use the language of weight
22	at the beginning of this case because we may have to	22	because whether something is admissible or not is not
23	re-visit it from time to time.	23	a question which arises before a First Tier Tribunal
24	MR HEPPINSTALL: Establishing the ground rules and making	24	because it receives day in and day out inadmissible
25	them clear is extremely important, my Lord, and indeed	25	evidence by the civil standard.
23	them clear is extremely important, my Lord, and indeed	23	evidence by the civil standard.
	Page 33		Page 35
1	the lack of such a strong position at the beginning of	1	MR_ILISTICE_BLAKE: Language there are no rules of
1 2	the lack of such a strong position at the beginning of	1 2	MR JUSTICE BLAKE: I appreciate there are no rules of
2	the first tribunal led to confusion and complications	2	evidence and hence I read the citation I did from the
2 3	the first tribunal led to confusion and complications later on, so I think without doubt.	2 3	evidence and hence I read the citation I did from the Bench Book.
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1	standard of doubt are all factors which at the moment	1	he has expertise. Does that mean we shouldn't receive
2	are in the back of my mind as to what we should do. But	2	it? Question 1, 2 and 3.
3	as I understand it, focusing upon Mr Williams' evidence	3	MR CHARLTON: The first point, in any event, my Lord, the
4	what you are saying is that insofar as he produces	4	second document, it's at number 7 in Mr Heppinstall's
5	an interesting, lovely diagram of winds and shapes he	5	initial submission, where the two documents in question
6	has derived from other data, that is an expression by	6	are outlined, so in Mr Heppinstall's submissions where
7	him of an opinion on the expert science of meteorology.	7	he says "No expertise which will enable him to present
8	And no disrespect to him, whatever his skills are, they	8	the evidence set out" and he mentions SB8/134 and
9	don't include expertise in meteorology.	9	SB10/158, the first point I make is that SB10/158 isn't
10	MR HEPPINSTALL: No, my Lord.	10	an issue, wouldn't be relied upon in any event so we
11	MR JUSTICE BLAKE: Therefore he can't make a CPR 35	11	need only talk about SB8/134.
12	declaration. Therefore?	12	MR JUSTICE BLAKE: So SB10 I have it loose.
13	MR HEPPINSTALL: Therefore they can't be received into the	13	MR CHARLTON: SB10 we don't need to worry about.
14	evidence. You would be unable to give them any weight	14	MR JUSTICE BLAKE: You mean to say you are taking it out?
15	and therefore you shouldn't receive them.	15	MR CHARLTON: Yes, my Lord, in any event.
16	MR JUSTICE BLAKE: Because it would be irrelevant?	16	MR JUSTICE BLAKE: Right. So you are not going to rely upon
17	MR HEPPINSTALL: Indeed.	17	that.
18	MR JUSTICE BLAKE: Which rather sounds like admissibility.	18	MR CHARLTON: Exactly.
19	MR HEPPINSTALL: Well, we are dancing on the head of a pin.	19	MR JUSTICE BLAKE: All right. So we can take it out of the
20	It's just the way that the tribunals operate differently	20	bundle.
21	to a court.	21	MR CHARLTON: Yes, my Lord.
22	MR JUSTICE BLAKE: Yes. Right, okay. Well, we've had that	22	MR JUSTICE BLAKE: Thank you.
23	little exchange. Now what would you like to say?	23	MR CHARLTON: Now
24	MR CHARLTON: Yes. May it please you, my Lord.	24	MR JUSTICE BLAKE: Right.
25	MR JUSTICE BLAKE: If we focus on Williams first and then	25	MR CHARLTON: The other one, SB8/134, the reality is,
	Page 37		Page 39
		1	
	m 1	١,	T 1 d a C a d C a
1	we'll see where we go.	1	my Lord, that in fact things have moved on quite
2	MR CHARLTON: As you will see already, actually, my Lord,	2	substantially and so again I'm not even sure whether
2 3	MR CHARLTON: As you will see already, actually, my Lord, we've gone straight into the Busby question as well.	2 3	substantially and so again I'm not even sure whether I can't say we will definitely rely on that in any event
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10 (Pages 37 to 40)

1	put together. Yes, my Lord.	1	proceedings.
2	MR JUSTICE BLAKE: I thought that was Mr Heppinstall can	2	But the real point, and I think my best point,
3	this is the particular focus of your submissions, is	3	because I understand the expert point which does go
4	it?	4	rather against me, is that this has already been argued,
5	MR CHARLTON: Yes, my Lord.	5	has already gone in in the first tier and what the SSD
6	MR JUSTICE BLAKE: We have that. I mean, there it is, it's	6	is trying to do is have a second bite at an argument he
7	putting together data that he has obtained from	7	has already lost. That's my best point, I think,
8	somewhere into a plan.	8	my Lord because I agree I'm on weak ground on expertise.
9	MR CHARLTON: Yes.	9	In other words, so even if I concede the expertise point
10	MR JUSTICE BLAKE: As I understand it, if I'm wrong you'll	10	it's already gone in and been cross-examined on.
11	let me know, my present understanding is that that is	11	MR JUSTICE BLAKE: I've got that. I'll hear from
12	him trying to interpret some primary factual data to	12	Mr Heppinstall on that point.
13	give an opinion as to where the winds were blowing at	13	Now, moving further, if I may, I infer from the way
14	the relevant time.	14	you've just argued that point that you don't take issue
15	MR CHARLTON: Yes. It's supporting Joe Pascini's(?) witness	15	with the proposition that in this appeal, whatever else
16	statement. Now	16	one can do, that we ought to have the rigour of CPR 35
17	MR JUSTICE BLAKE: It's a piece of opinion evidence? That's	17	in expert evidence.
18		18	1
19	what I'm trying to ascertain. Yes or no? MR CHARLTON: Well, in the sense that he is putting	19	MR CHARLTON: I submit at this stage, my Lord, that would be
	• • •	20	over-rigorous in this particular
20	together it's a good point, my Lord. Whether it's	20 21	MR JUSTICE BLAKE: Right, that's where maybe the wind is
21	a satisfactory compilation, I don't know if it's said to	1	blowing a little bit against you. We don't need
22	be, but the more important point I'm sorry, my Lord,	22	meteorology but you just need some smart submissions.
23	the best point is that this evidence has in any event	23	MR CHARLTON: Perhaps I am waiting for a little entrainment
24	been put before the First Tier Tribunal, was adduced in	24	or rain on top of it.
25	the First Tier Tribunal and Mr Johnson was	25	If I can now address the Dr Busby point?
	Page 41		Page 43
1	cross-examined on it at the First Tier Tribunal.	1	MR JUSTICE BLAKE: Yes.
2	MR JUSTICE BLAKE: I am running this one and I am setting	2	MR CHARLTON: My Lord, it seems to me it's absolutely clear
3	the ground rules now.	3	from the Charles judgment that what he is talking about
4	MR CHARLTON: I appreciate that, my Lord, but what	4	at 239 and 240, "The reason I've concluded"
5	Mr Heppinstall didn't say in his submission to you, he	5	MR JUSTICE BLAKE: The judgment or the order?
_	has not made that clear to you.	6	MR CHARLTON: I have both but your Lordship will need the
6 7	MR JUSTICE BLAKE: There is a question I was going to ask	7	judgment.
8	about when did it first emerge, but at the moment I am	8	MR JUSTICE BLAKE: Where do I find that? Is it 17?
9	trying to deal with an issue of principle.	9	MR HEPPINSTALL: SB18, tab 4. (Pause)
		10	MR CHARLTON: Someone is saying SB110.
10	MR CHARLTON: I appreciate that, my Lord, but I am hoping		WIR CHARLTON. Someone is saying 5D110.
11		1.1	MD HISTIGE DI AVE. 1109
11	my Lord, I am trying to go one behind that and saying in	11	MR JUSTICE BLAKE: 110?
12	any event what is happening here is that Mr Heppinstall	12	MR CHARLTON: 1.10.
12 13	any event what is happening here is that Mr Heppinstall having — the Secretary of State having failed to get it	12 13	MR CHARLTON: 1.10. MR HEPPINSTALL: Are we after the order or the judgment?
12 13 14	any event what is happening here is that Mr Heppinstall having — the Secretary of State having failed to get it excluded in the first tier is having a second bite at	12 13 14	MR CHARLTON: 1.10. MR HEPPINSTALL: Are we after the order or the judgment? MR JUSTICE BLAKE: The order, I can tell you
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1	MR JUSTICE BLAKE: Yes.	1	reference at 241:
2	MR CHARLTON: We say, my Lord, basically this is	2	"The evidence should be seen independent product
3	anticipating the fact that he will not become a witness.	3	of the expert uninfluenced as to the form or content by
4	MR JUSTICE BLAKE: No, he can't give expert evidence. Yes.	4	the exigencies of litigation."
5	MR CHARLTON: Well, and again it's again, if you look at	5	MR JUSTICE BLAKE: Quite, but pause there. If you are
6	the reasons, in particular at 240, the reason is that	6	running a campaign for recalibration of the protective
7	when he gives evidence in a case when he preparing	7	principles of radiation and you are saying that the
8	a report for a case, which of course don't forget there	8	conventional wisdom is wrong and you reason that
9	were six reports that he had been commissioned by	9	consistently and thoroughly in a number of tribunals
10	I think the court to write at the first tier, the point	10	where the issue comes up, you are seeking a result and
11	was being made there that his reports might have been	11	you are committed to a result. That means that when you
12	tainted by his enthusiasm. That's what he is saying.	12	give information or expertise to the case there is
13	MR JUSTICE BLAKE: It's because of the matters set out there	13	a real risk that the expertise is influenced by the fact
14	that he doesn't meet the test of objectivity in the	14	that you are seeking a result, and you are seeking
15	Ikarian Reefer, 241.	15	a result before you became involved. And that is why we
16	MR CHARLTON: Yes.	16	don't in the CPR and Ikarian Reefer, or the Ikarian
17	MR JUSTICE BLAKE: So that's the reason for the exclusion.	17	Reefer first and the CPR later says: no, courts don't
18	MR CHARLTON: Yes.	18	want to receive that kind of evidence because there's
19	MR JUSTICE BLAKE: So that means his views, no doubt	19	too much of a risk.
20	honestly, passionately held, are not going to enter the	20	MR CHARLTON: So if Dr Busby has written a report with
21	difficult arena of this case, either orally by giving	21	a view for proceedings as he has done then that applies.
22	witness evidence viva voce, or in writing or otherwise.	22	So I'm not disputing the fact that where Dr Busby on his
23	That means, I think, therefore, that we should not	23	own has written a report for proceedings, and these were
24	base any conclusion as to the reasonable doubt case on	24	the ones that were explicitly excluded at the first
25	Mr Busby's views on the issues in this case, including	25	hearing, that we are stuck with that. But to go on and
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	Page 45		Page 47
1	the views he has put into his articles, and I also think	1	say everything that Dr Busby has ever written on the
2	that when you look at the other limbs of the Ikarian	2	subject, even though it wasn't with a view to
3	Reefer, namely Professor Sawada and Professor Schmitz	3	proceedings, it was with a view to participating in the
4		4	
5	Feuerhake, they have got to explain what materials they identify as supporting their opinions. If the answer	5	scientific debate, to say that all that has to go I respectfully say, my Lord, is positively Orwellian
6	is, "Well, it's an article by Dr Busby," that is	6	particularly when we bear in mind he has been one of the
7	a breach of the "or otherwise" limb of the direction.	7	leading lights in challenging the conventional model and
8	MR CHARLTON: If I could take your Lordship to two points on	8	in effect we are going into court with our hands tied
	that. One, I simply say that's far too broad		behind our back.
10	an interpretation of the "or otherwise" direction.	10	MR JUSTICE BLAKE: Well, I think you are.
11	MR JUSTICE BLAKE: "Otherwise" is quite a broad word, isn't	11	MR CHARLTON: That, with the greatest of respect, is not
12	it?	12	something that one wants these courts to do.
		13	-
13 14	MR CHARLTON: Not if taken in the context of purporting to be a witness. I don't think Judge Charles is to say	14	MR JUSTICE BLAKE: I think one does if one starts off with the principle that we are not to hear Dr Busby's views,
15	anything that Dr Busby has ever said even where it's	15	he can present the views of others and that's what we're
16	peer reviewed and agreed with other people cannot	16	going to be doing this afternoon. If it turns out that
17		17	
18	MR JUSTICE BLAKE: You can tell us about peer review in a moment but I don't read it that way.	18	the others in fact rely significantly on his views, then one is actually relying upon his views in this case.
19	MR CHARLTON: If I can make my first more simple point,	19	MR CHARLTON: I
20	which again the wind seems to be against me, but it	20	MR JUSTICE BLAKE: And that's where I am drawing the line.
21	seems to me it's absolutely clear he is talking about	21	MR CHARLTON: There is some force in that, my Lord, but if
22	evidence prepared with a view to litigation. The	21 22	
23		23	in fact they are relying on empirical data that he has referred to, then that would be admissible, even under
24	Ikarian Reefer case is all about experts giving evidence in the box, and the problem is that if the	24	your Lordship's current rather harsh ruling, wouldn't
	phraseology is that it's particularly in an Ikarian	25	it?
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25	r		
23	Page 46		Page 48

1	MR JUSTICE BLAKE: It's not harsh, it's logical. Empirical	1	sums properly
2	data is empirical data but if he has devised it all and	2	MR JUSTICE BLAKE: Well, I think there are people; not me,
3	it requires expertise to devise it I appreciate I am	3	but others have but we've got that elsewhere
4	only now, after being involved in this case for a year,	4	MR CHARLTON: My Lord, you can go through the transcript but
5	beginning to see the various threads, and "beginning to"	5	for three days I don't believe there was a single
6	is the highest I put it, because there is a lot I have	6	scientific point made against him during the three days'
7	to learn in the course of this case as to all the	7	hearing, my Lord, and I had to sit through it.
8	intricate elements, but it seems to me that if, for the	8	So it's not his science that's at risk, it's his
9	reasons set out in Mr Justice Charles' judgment, based	9	enthusiasm and that may mean that it's been decided that
10	upon argument and well known principles, that view is	10	therefore he will taint his reports for litigation. I
11	taken and the consequential order is whether it's	11	repeat, my Lord, the Ikarian Reefer talks about the
12	orally, in writing or otherwise, that is the ground	12	exigencies of litigation.
13	rules which have governed the hearing of this appeal.	13	If I can move on, but I'm only repeating myself on
14	Nothing is intended to be said to disrespect anyone's	14	that point, my Lord. The point being the litigation
15	views, which I am sure are genuinely held but those are	15	point is important because otherwise you have a court
16	the ground rules.	16	saying: what is the point of peer review? I am sure
17	Therefore, if others are going to tell us about	17	your Lordship is familiar with the peer review process.
18	their opinions I mean we can see, for example, that	18	MR JUSTICE BLAKE: Yes.
19	this afternoon Professor Sawada is going to refer to the	19	MR CHARLTON: If needs be I was going to ask someone else
20	other witness about her work on Chernobyl. Obviously we	20	as I'm not a scientist but as I understand it peer
21	don't need hearsay from Professor Sawada on that, we are	21	review, it is submitted to editors and looked at by
22	going to hear from the horse's mouth. That is the way	22	other people.
23	we do it. If it turns out that she or someone else is	23	MR JUSTICE BLAKE: Quite, but we don't know in some of these
24	saying "Well, actually the real core piece of material	24	journals who was doing the peer reviewing. If you'd
25	that I rely upon for this view is an opinion of	25	like to over the intervening period, if there is some
	Page 49		Page 51
1	Dr Bushy's "then unless there's something about that	1	article that you think is critical to this anneal that
1 2	Dr Busby's," then, unless there's something about that	1 2	article that you think is critical to this appeal that
2	opinion and its age or its status which would exempt it	2	has been co-authored by Dr Busby, I think I and I am
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1 MR JUSTICE BLAKE: We are having an argument but I am hoping 2 to focus your mind upon the issues that are of concern 3 to me, and they are me personally at this stage because 4 having heard what you say we will then go and consider 5 the position. 6 MR CHARLTON: I'm grateful, my Lord. 7 The final point I make, of my three points, is that 8 this comes to us at a very late stage. At the pleas and 9 case management hearing your Lordship observed that, you 10 know, Dr Busby appeared to be making statements of 11 MR JUSTICE BLAKE: 2014, it's pretty broad. (b) we did 2 touch upon the topic last time and I explained as best 3 I could – I haven't looked at the transcript – that 4 what we are going to conduct this time is that Dr Busby 5 is here as a representative, he knows who the experts 6 are that he is relying upon, and he is going to present 7 those experts independently and we will value their 8 evidence for what they tell us. If it turns out that an 9 expert simply comes in the witness box and says, "Well, 10 know, Dr Busby appeared to be making statements in his 10 the critical document is the opinion of Dr Busby," 11 statement of case that amounted to opinion and therefore 12 we spent quite a lot of time rewriting the statement of 13 case to take out what appeared to be Dr Busby's 14 or are you just a surrogate for Dr Busby?" If it turns 15 out to be the latter –	
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14 statement of opinion. But at no stage did anybody say 14 MR CHARLTON: Well, your Lordship is against me on t	ıe.
15 "Oh and by the way you'd better make sure that nobody 15 limiting it to, as it were, specific litigation	ic
16 relies upon anything that Dr Busby's ever said or 16 orientated documents and your Lordship is against me a	d
	ıu
18 court, not having an opportunity to argue our case at 19 all, we're suddenly presented with, "Hang on, half your 19 I mean, fight your corner by all means. We haven't made	
20 case you can't rely on" and this is the day if 20 a ruling, we're having a discussion. But	
21 somebody had said this 21 the January 2016 article in your view was not written	
22 MR JUSTICE BLAKE: I don't know be careful of the 22 with a view to litigation therefore it's admissible?	
23 forensic language you use. If it does turn out that 23 (Pause)	
24 half your case is relying upon the opinions of Dr Busby 24 MR CHARLTON: My Lord, apparently the January 16 ar	icle is
25 then frankly 25 not by Dr Busby. So now we are here that's right, my	
Page 53 Page 55	
1 MR CHARLTON: No, I dug a hole for myself, I appreciate 1 learned friend touches I mean my non-learned fri	end
that. 2 that. 2 touches upon the point that I think and if I can	iiu
3 MR JUSTICE BLAKE: Get it back again. I'm not going to hold 3 dig myself back out of my half eye case hole that I	2370
4 it against you. The point of principle is, insofar as 4 dug for myself I think it's the co-authored docum	
5 your case does rely upon the opinions of Dr Busby, 5 in particular that caused the problem, because Dr B	
6 insofar, and I am not at all clear, that there are 6 participates to a greater or lesser extent on those an	-
7 certain issues in cross-examination that we would like 7 that's the one that really causes the problems.	ı
8 to hear Mr Hallard answer matters raised, but insofar as 8 MR JUSTICE BLAKE: If you want to look at it in or	lor to
9 a positive case relies upon the evidence of Dr Busby 9 tease out this I mean I've read it and maybe we do	
	Πι
that's not on. Australia maybe, Canada maybe, but this literation and the literation and	
12 Tribunal not. 12 that's come into existence since this litigation and the company of the comp	
13 MR CHARLTON: All I am saying, my Lord, is that I hope when 13 issues have been raised. It is co-authored by X and	I.
1 14 st comes to the viewing aggregaments view onin-t- 1 14 W' ' ' 1 14 C 4 1	
14 it comes to the various assessments you are going to 14 X is giving evidence and therefore on the general	
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make that the Tribunal will be sympathetic to the fact that this particular ruling comes to us the day we walk that the point is good because I said so", and what else do have to support y'our opinion if it's controversial? The particular ruling comes to us the day we walk that the point is good because I said so", and what else do the point is good because I said so", and what else do the point is good because I said so", and what else do the point is good because I said so", and what else do the particular ruling comes to the opinion is good because I said so", and what else do the particular ruling comes to support y'our opinion is good because I said so", and what else do the particular ruling comes to support y'our opinion is good because I said so", and what else do the particular ruling comes is	nd

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1	MR JUSTICE BLAKE: Oh dear, I've read them	1	important, this is the important one, which was
2	MR CHARLTON: I tried to.	2	co-authored by Professor Schmitz Feuerhake and myself
3	MR JUSTICE BLAKE: I tried to read the ones which Dr Busby	3	and another German scientist, Dr Pflugbeil, we could of
4	told me were the most important because I've taken his	4	course make a separate application for a relaxation of
5	word for it.	5	your direction for this particular paper, but before
6	MR CHARLTON: I think the point as I understand it, though,	6	I do that I should just say that this was not written
7	if the expert says "Well, actually no this is my	7	for these proceedings, it was actually written by
8	conclusions based on my research, original material that	8	Professor Schmitz Feuerhake, whose English is not
9	I have looked at and formed my opinion," that would in	9	terribly good, and so she sent it to me to just turn it
10	any event be admissible. I am reluctantly conceding	10	into better English and then it was submitted to quite
11	that even though it's for a scientific journal I'm	11	a
12	not conceding, but I'm conceding your Lordship's	12	MR JUSTICE BLAKE: Well, she no doubt can talk about it but
13	MR JUSTICE BLAKE: There are scientific journals and	13	generally speaking you would not forget you, take you
14	scientific journals. Some are well known, some are	14	out of the picture altogether. I am going to
15	online, I don't know who the editors are, I don't know	15	depersonalise it to explain it. We have an expert X who
16	about the process. If you want to dig out in the	16	is presenting a proposition for this Tribunal. The
17	course of your case if there's some particularly	17	Ikarian Reefer tests requires expert X to identify all
18	important co-authored article which precedes this	18	the sources of facts or information or scientific
19	litigation as opposed to being generated during it, that	19	indications on which the opinion is based. The reason
20	you say has been peer reviewed and therefore has	20	for that is so the factual basis for the opinion can be
21	a degree of credibility beyond the assertion of the	21	tested and clarified. If the factual basis for the
22	authors, my direction leaves open that possibility if	22	opinion is the opinion of another then you can see why
23	you tell us something about it.	23	one then is drawn to the focus from expert A to the
24	MR CHARLTON: Well, I think as long as your Lordship is	24	subordinate expert. But if it's not, and if the expert
25	leaving something open then I'll be grateful. I know	25	X simply relies upon their own previous writings, well
	Page 57		Page 59
1	Dr Busby	1	generally speaking that's stand on one hand clapping
2	MR JUSTICE BLAKE: That's what it says, the paragraph,	2	save insofar as that intervention into the academic
3	without varying the directions. You've made a general	3	discourse has received general approbation. Who is it
4	variation. You are not going to get far at the	4	receiving approbation from? Well, Mr Y. I hope you can
5	moment	5	see the mechanics of where this goes?
6	MR CHARLTON: I see, my Lord. I hadn't understood that part	6	DR BUSBY: I do have some difficulty similar ones,
7	either that when it comes up we may now as it were	7	I won't go into them, I have much the same concerns as
8	reapply	8	Mr Charlton advanced in this regard. It seems to me to
9	MR JUSTICE BLAKE: I think you have to reflect on this. You	9	be a sort of lese majeste relating to the whole concept
10	will have some time because the first witness isn't	10	of scientific peer review and what is accepted as
11	concerned with this topic. But it may come up I think	11	scientific fact.
12	by Wednesday. I think you should see which articles	12	MR JUSTICE BLAKE: You can tell us about scientific peer
13	which are co-authored you think are really important	13	reviews. We've made some attempts to find out and we
14	that you want to put to the witness as the supportive	14	find some of the interesting articles seem to be online
15	evidence, and if it precedes, i.e. is not created during	15	journals
16	the course of this litigation or it has been generally	16	DR BUSBY: There are some really bad journals, I agree, my
17	endorsed by a respectable body of academic opinion, in	17	Lord, but this not one of them. This is a journal which
18	which case we'd like to know when, who and how, we can	18	is cited by the National Institute
19	take it as a case by case issue.	19	MR JUSTICE BLAKE: Some of them you are editor of, I think.
20	MR CHARLTON: I think the respectable body of academic	20	DR BUSBY: No, not at all
21	opinion is the respondents. But, my Lord, I know	21	MR JUSTICE BLAKE: Tell us about that in due course when we
22	Dr Busby is reluctant to say something but he feels he	22	come to it.
23	does want to deal with the one issue because I am not	23	DR BUSBY: Thank you, my Lord.
24	DR BUSBY: If I may, my Lord, with regard to this document	24	MR JUSTICE BLAKE: Is there anything else you wish to say?
25	that I suggested was on your reading list which was	25	DR BUSBY: We are done on that issue?
	Dago 50		Dago 60
	Page 58		Page 60
			15 (Pages 57 to 60)

1	MR JUSTICE BLAKE: No, if you've made your submissions on	1	Et cetera, et cetera.
2	that issue I can go back to Mr Heppinstall. We've still	2	In fact, looking at this text it was lifted into the
3	got to deal with some points.	3	e-mail that was then sent to this Tribunal.
4	DR BUSBY: I have no more to say.	4	So the challenges to Mr Williams' documents were
5	MR CHARLTON: So where we are, we hear what your Lordship	5	made, particularly that diagram, before the
6	says, we hear the hurdles we're going to have to come up	6	First Tier Tribunal.
7	with, but I think your Lordship has not closed the door	7	Then the First Tier Tribunal, that was in closing
8	completely and as and when the problem arises we'll	8	submissions, didn't make a ruling, the evidence just
9	apply to alter the direction. Is that, I think, the	9	isn't relied on
10	process? And your Lordship has indicated the sort of	10	MR JUSTICE BLAKE: Somehow the diagram was there but it was
11	line the Tribunal is likely to take as to whether or not	11	never adjudicated upon.
12	they are going to rely I would very much invite	12	MR HEPPINSTALL: It never featured. I should also just add
13	your Lordship to make the distinction between weight and	13	that in the footnote previous I've repeated this in
14	admissibility, particularly bearing in mind that we are	14	the submission that Mr Johnston before, when he was
15	in the Tribunal, my Lord. So that's what I say.	15	cross-examined on this document, pointed out that in
16	I think	16	fact Mr Williams had got things wrong on that document,
17	MR JUSTICE BLAKE: Well, I'm not going to over-complicate	17	there were errors in it.
18	the proceedings in these cases but I'm having this	18	MR JUSTICE BLAKE: Is it the diagram?
19	debate now at the outset of the case because I think it	19	MR HEPPINSTALL: The diagram, simply, yes.
20	might be helpful to inform the way I, we, with my	20	MR JUSTICE BLAKE: If we take out the diagram, it seems to
21	colleagues, how we are going to evaluate this.	21	me the rest is a library compilation of weather reports?
22	MR CHARLTON: Certainly we are now on notice.	22	MR HEPPINSTALL: That's disavowed anyway. We're now just
23	MR JUSTICE BLAKE: There has to be some discipline now	23	* *
24	_	24	talking about the diagram.
25	because we've got a lot in and we want to see what we're	25	MR JUSTICE BLAKE: I thought we were looking at other
23	focusing on.	23	things.
	Page 61		Page 63
1	MR CHARLTON: I do say, my Lord	1	MR HEPPINSTALL: No, the Noaa high split stuff has
2	MR JUSTICE BLAKE: Is there something else you want to say?	2	thankfully been removed because that really is beyond
3	MR CHARLTON: My Lord, I just think in the interests of	3	the pale. In fact, this diagram itself, if one looks at
4	justice, and also in the light of my learned friend	4	the sources, not only is it the various raw evidence, if
5	Mr Heppinstall's concession, as it were, on this, that	5	you like, it includes meteorological data, but it also
6	bearing in mind that Dr Busby's evidence was actually	6	includes the effects of nuclear weapons, which is this
7	one of the grounds for appeal from the First Tier in any	7	thing that is the bible that the nuclear physicists have
8	event, it is a bit unfortunate and embarrassing if	8	been using that you certainly need the relevant
9	suddenly a whole lot of stuff is suddenly knocked out at	9	qualifications to have before you even attempt to start
10	the early stage.	10	manipulating data within it.
11	MR JUSTICE BLAKE: Use your language: Dr Busby's evidence.	11	MR JUSTICE BLAKE: Well, in this difficulty I've abstracted
12	That was precisely anyway, I think enough.	12	what I thought was the tab you were objecting to. Can
13	MR CHARLTON: I am grateful, my Lord, yes.	13	you go back to is it SB8?
14	MR JUSTICE BLAKE: Mr Williams' report, when did you get it?	14	MR HEPPINSTALL: The other one is
15	MR HEPPINSTALL: As I was leaving chambers this morning	15	MR JUSTICE BLAKE: SB10 we've taken out, yes?
16	I grabbed my closing submissions made before the last	16	MR HEPPINSTALL: Yes, that's right. Then the diagram is at
17	First Tier Tribunal, not expecting to use them but I can	17	tab 134.
		18	MR JUSTICE BLAKE: Of SB8.
	recall that a submission was made as to Dr Busby's		
18	recall that a submission was made as to Dr Busby's written evidence. At the end of that submission under	I	MR HEPPINSTALL: SB8.
18 19	written evidence. At the end of that submission under	19	MR HEPPINSTALL: SB8. MR JUSTICE BLAKE: Right. That is the only thing there.
18 19 20	written evidence. At the end of that submission under a heading "Mr Williams" it says:	19 20	MR JUSTICE BLAKE: Right. That is the only thing there.
18 19 20 21	written evidence. At the end of that submission under a heading "Mr Williams" it says: "See the submission made at footnote 10 at C1."	19 20 21	MR JUSTICE BLAKE: Right. That is the only thing there. MR HEPPINSTALL: That's the only thing left.
18 19 20 21 22	written evidence. At the end of that submission under a heading "Mr Williams" it says: "See the submission made at footnote 10 at C1." If I turn to the submission I made then at that	19 20 21 22	MR JUSTICE BLAKE: Right. That is the only thing there. MR HEPPINSTALL: That's the only thing left. MR JUSTICE BLAKE: I wasn't sure whether it was, because
18 19 20 21 22 23	written evidence. At the end of that submission under a heading "Mr Williams" it says: "See the submission made at footnote 10 at C1." If I turn to the submission I made then at that footnote it says:	19 20 21 22 23	MR JUSTICE BLAKE: Right. That is the only thing there. MR HEPPINSTALL: That's the only thing left. MR JUSTICE BLAKE: I wasn't sure whether it was, because I've had it loose. But I've got it.
18 19 20 21 22 23 24	written evidence. At the end of that submission under a heading "Mr Williams" it says: "See the submission made at footnote 10 at C1." If I turn to the submission I made then at that footnote it says: "Mr Williams' CV is at supplementary 2, tab T. He	19 20 21 22 23 24	MR JUSTICE BLAKE: Right. That is the only thing there. MR HEPPINSTALL: That's the only thing left. MR JUSTICE BLAKE: I wasn't sure whether it was, because I've had it loose. But I've got it. MR HEPPINSTALL: That was the the only thing left. It was
18 19 20 21 22 23	written evidence. At the end of that submission under a heading "Mr Williams" it says: "See the submission made at footnote 10 at C1." If I turn to the submission I made then at that footnote it says:	19 20 21 22 23	MR JUSTICE BLAKE: Right. That is the only thing there. MR HEPPINSTALL: That's the only thing left. MR JUSTICE BLAKE: I wasn't sure whether it was, because I've had it loose. But I've got it.
18 19 20 21 22 23 24	written evidence. At the end of that submission under a heading "Mr Williams" it says: "See the submission made at footnote 10 at C1." If I turn to the submission I made then at that footnote it says: "Mr Williams' CV is at supplementary 2, tab T. He	19 20 21 22 23 24	MR JUSTICE BLAKE: Right. That is the only thing there. MR HEPPINSTALL: That's the only thing left. MR JUSTICE BLAKE: I wasn't sure whether it was, because I've had it loose. But I've got it. MR HEPPINSTALL: That was the the only thing left. It was

16 (Pages 61 to 64)

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1	Ikarian Reefer grounds and in terms of actually it was	1	the Tribunal, not me.
2	just inaccurate in material respects.	2	MR HEPPINSTALL: Yes.
3	MR JUSTICE BLAKE: Righty ho.	3	MR JUSTICE BLAKE: Can we just retire.
4	MR HEPPINSTALL: So we maintain our position on that.	4	(12.10 pm)
5	On the Dr Busby issue	5	(A short break)
6	MR JUSTICE BLAKE: It's the co-authored reports which	6	(12.20 pm)
7	someone else is going to refer to.	7	Provisional Ruling
8	MR HEPPINSTALL: Well, if the expert can say "Had Dr Busby	8	MR JUSTICE BLAKE: We have heard argument on a preliminary
9	never said what he has said in a report, I would have	9	issue which was directed to whether a piece of evidence
10	said it or I agree with it or I've observed it myself,"	10	that was in the bundle at SB8, which takes the form of
11	if there's a happy coincidence of opinion then I don't	11	a chart devised by Mr Williams, should be received into
12	think any restraint can be put on that expert as to	12	evidence at this hearing. We have concluded that it
13	giving evidence as to their own opinion.	13	should not, applying the principles of requirement of
14	MR JUSTICE BLAKE: Then we've achieved the independent	14	expertise set out in common law and reflected in CPR 35.
15	MR HEPPINSTALL: Indeed, yes.	15	Our reasons for that decision will be given in
16	MR JUSTICE BLAKE: the test. But if not I am trying	16	writing to be handed down in due course as soon as is
17	to put two hypotheses. Whether any of these hypotheses	17	reasonably practicable.
18	will emerge	18	The hearing of that argument also engaged the
19	MR HEPPINSTALL: If in respect of the one we were just	19	question of the meaning of the directions given by
20	looking at in SB6, the Schmitz Feuerhake, Busby and	20	Mr Justice Charles with respect to the evidence of
21	Pflugbeil, I mean you have taken the wind out of my	21	Dr Busby, where he said that expert evidence from him
22	cross-examination under conflicts of interest on that	22	should not be admitted, whether orally, in writing or
23	document, because there seems to be one great	23	otherwise.
24	interest	24	An issue has arisen as to what is the status of
25	MR JUSTICE BLAKE: Well, I'm not wishing to go too far	25	academic articles co-authored or solely authored by
	Page 65	<u> </u>	Page 67
1	ahead. I am just trying to set some ground work.	1	Dr Busby.
2	MR HEPPINSTALL: My Lord is right to do so.	2	In our view, they fall within that direction,
3	MR JUSTICE BLAKE: Just remind me which tab it is.	3	excluding the opinion evidence of Dr Busby from forming
4	MR HEPPINSTALL: SB6/89.	4	a part of this appeal, but we recognise that there may
5	MR JUSTICE BLAKE: Yes, I have flagged it up.	5	need to be some pragmatic opportunity for other experts
6	MR HEPPINSTALL: Yes.	6	to explain why they reach the views which they do and we
7	There's lots of cross-referencing to Dr Busby, many	7	do not exclude the possibility that particular articles
8	of his references are in the list. The conflicts of	8	written perhaps at some distance from the litigation
9	interest paragraph is somewhat extraordinary in the	9	with which various witnesses have been concerned might
10	circumstances and given the date.	10	be demonstrated to have been peer reviewed at such
11	All of these were points of cross-examination which	11	a high and independent level that there is a relaxation
12	would be put and it's for Dr Schmitz Feuerhake to	12	of that direction as we find it to be.
13	explain and explain how much of this is her and how much	13	Again, our reasons for that construction of the
14	of it isn't.	14	direction will be given in due course but we thought it
15	MR JUSTICE BLAKE: That's ahead. I just want to identify	15	appropriate to raise it now, so if there is foreseen in
16	the principles which we'll retire now and I'll give	16	the course of the next fortnight some particular
17	a decision but not an explanation for it now. But	17	importance given to an article the relevant researches
18	I want just to set the principles on which we are going	18	as to the status of it in terms of who published it, the
19	to agree the position.	19	editorial board and the peer reviewers can be made
20	MR HEPPINSTALL: On the explanation, we would encourage	20	available if need be.
21	a written decision, maybe not to hold up today's	21	That's all I say. Written reasons will be given in
22	proceedings, obviously, but in due course.	22	due course.
23	MR JUSTICE BLAKE: No, that's what I'm thinking of doing.	23	I think that means we've now dealt with the
24	MR HEPPINSTALL: I'm grateful.	24	preliminary issues and you want to open your case,
25	MR JUSTICE BLAKE: I just want to see. I've had a lot of	25	Dr Busby.
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1	DR BUSBY: Thank you, my Lord.	1	Opening submissions by DR BUSBY
2	MR JUSTICE BLAKE: Can I just put a couple of things away so	2	DR BUSBY: Thank you, my Lord.
3	I won't be distracted.	3	I propose to open by just giving a brief account of
4	MR HEPPINSTALL: I also in the adjournment made an inquiry	4	what our case is and a short history of how we came
5	of the shorthand writers as to when they would like	5	here. I will try not to be very long.
6	their breaks because obviously we can certainly go on	6	There is going to be some record of this so I would
7	longer than they can. I think a mid-morning and	7	like to see this in the record. That's why I'm doing
8	a mid-afternoon break would be convenient.	8	this.
9	MR JUSTICE BLAKE: Are we going to be able to continue	9	I've been an expert in these cases since 2004 in the
10	between now and one o'clock?	10	UK and more recently in Australia. All the appeals
11	MR HEPPINSTALL: They are nodding.	11	I was expert witness in were successful. Then I was
12	MR JUSTICE BLAKE: Yes, I should just say that we will sit	12	locked out following the Upper Tier hearing and the
13	at 10.30 this week, save I think on Friday if it's	13	representations of the Ministry of Defence and the
14	convenient for you all could we sit at 10 o'clock, with	14	Secretary of State and the cases in which I was not
15	the hope that we can complete the witness on that date	15	an expert witness mostly failed. But one thing the
16	in good time?	16	Upper Tier judge did was allow the appeal and remit the
17	MR HEPPINSTALL: Yes, my Lord.	17	cases to this Tribunal and here I'm the representative
18	MR JUSTICE BLAKE: But whatever time it takes we'll need to	18	of two of the veterans, one each from Australia and from
19	finish with her evidence. But 10 o'clock.	19	Christmas Island.
20	MR HEPPINSTALL: Yes.	20	Now all of my expert evidence when I was an expert
21	MR JUSTICE BLAKE: Once we see where we've got to on this	21	was based on the proofs that were successfully argued in
22	Friday we can perhaps keep an open mind.	22	six cases plus two in Australia that the current
23	MR CHARLTON: My Lord, just before my learned friend and my	23	radiation risk model of the International Commission on
24	non-learned friend opens, a housekeeping matter: as	24	Radiological Protection is unsafe when applied to the
25	your Lordship knows I was meant to be on the substitutes	25	kind of exposures that occurred at the nuclear test
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1	bench until Captain Ades was unfortunately taken ill.	1	sites, principally internal exposures to elements
2	I have been thrust more into the limelight than	2	uranium and tritium, neither of which we're told by the
3	I anticipated. I may have other professional	3	Ministry of Defence they measured and indeed probably
4	engagements, in which case I would apologise to the	4	quite difficult to measure them for various technical
5	court. Of course Dr Busby himself is here but also, as	5	reasons.
6	it were, to substitute to be my understudy now that	6	But throughout the current appeal, and also up until
7	I have been thrust into the limelight, Dr Celia Busby	7	the current appeal, the Ministry of Defence has
8	sitting to my left	8	continually and consistently withheld evidence, denied
9	MR JUSTICE BLAKE: I noticed the name on the slip.	9	its existence and when it was demonstrated to exist
10	MR CHARLTON: Exactly, my Lord.	10	outlawed it with spurious claims about secrecy.
11	MR JUSTICE BLAKE: Is Celia Busby a relative?	11	Myself and my colleagues have been threatened with
12	MR CHARLTON: Yes, I'm afraid so.	12	the Official Secrets Act and it has been extremely
13	MR JUSTICE BLAKE: You don't need to be afraid.	13	difficult to conduct and very stressful to continue with
14	MR CHARLTON: The advantage, my Lord, is that she is	14	these appeals over such a long period of time, and
15	familiar well, has recently become familiar with the	15	indeed the stresses are so great that I think probably
16	case and has participated. In the event that I can't be	16	they did contribute to my friend Andrew Ades' heart
17	here I hope your Lordship and the Tribunal would be	17	attack.
18	sympathetic.	18	And I myself have recently developed diabetes and so
19	MR JUSTICE BLAKE: Please, so long as teams have	19	I have an apple here, and so if it does come to it you
20	representation as we hear the evidence and so there's no	20	may see me grab an apple and start to eat it in some
21	one who is unrepresented, we will accommodate anyone.	21	sort of desperate way.
22	MR CHARLTON: I'm grateful, my Lord. I just thought I would	22	MR JUSTICE BLAKE: I hope not desperate.
23	deal with that point.	23	DR BUSBY: Yes.
24	MR JUSTICE BLAKE: Right. With that, I think finally it's	24	The appeal to the Upper Tier succeeded but I was
25	the time.	25	excluded as an expert and now I'm back here as
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			19 (Dagge (0 to 72)

a representative. It seems to me that as a result of that, and particularly the recent ruling which your Lordship has made, certain facts are going to have to be excluded from -- what I would call facts and what are facts are going to be excluded from consideration by this Tribunal.

Now, our appellants, Mr Battersby and Mr Smith, are dead. They both died from a rare cancer, pancreatic cancer, which two other veterans, Mr Williams and recently Mr Butler both died from. The Tribunal may ask whether this extraordinarily improbable event, four vets dying from the same cancer, itself may prove that they shared a common event, a common cause, and there's only one thing that they shared and that was the exposure to radioactive particulates at the test site.

Now they were young men. They were not asked to go, they were sent; they could not refuse. But when they fell ill, the Ministry of Defence abandoned them.

Worse, it denied what science has now shown clearly to be the case, that these low doses of internal particles of uranium and other radioactive substances caused massive genetic damage which shows itself as congenital malformations in their children and cancer and other diseases in them. Our experts have shown this and will present this evidence in the witness box.

in the court, that people might be biased, scientists might be biased, he accepted that scientists were biased, that all scientists are biased, all experts are biased by their interpretation of the facts, and also I have to say by their employment or by their culture.

And in America, where I do a lot of expert witness work, or have done in the past, it's generally accepted that each side in any case brings their own expert witnesses and those expert witnesses interpret the facts differently and the whole thing is argued out in a sort of oppositional sense.

Mr Meacher recognised this and he set up the committee examining radiation risk from internal emitters as an oppositional committee. The intention was to provide, if you like, grounds where everybody agreed on issues that were agreed but also then wrote separate reports or discussed the issues that were not agreed so that some research effort might be aimed at determining who was right.

Unfortunately that committee failed, and Mr Meacher is not here to tell us about how it failed but we do have a member of the committee, Mr Bramhall, that I have asked to give evidence and will be giving evidence next to discuss this issue.

So we will be basing our case on the following

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You may ask why we four old men, and one of us now in hospital, are bothering to engage in this extraordinarily stressful and unpaid process, and the answer is because the case goes beyond the appellants Battersby and Smith, it goes to an extraordinarily important issue relating to public health. This is why, I guess, it will be argued that the experts that we have called may be considered to be part of some sort of crazy cabal of individuals who are drawing attention to this public health issue, a public health issue which goes far beyond the test veterans themselves and the appellants in this case.

It goes to the fact that we are all of us test veterans, all of us. These tests caused atmospheric contamination in the northern hemisphere and led to increases in cancer and congenital malformation in global populations and this is evidence that will be given by the witnesses which we have called.

We were going to call the ex-Minister of the Environment, Mr Michael Meacher, who unfortunately died before we could arrange to call him. Mr Meacher was made aware of this problem in 2001, and he brought into existence a committee to examine this issue, an oppositional committee. That is to say rather than considering, like in the case of the Ikarian Reefer and

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points and then I will leave it at that.

The radiation risk model of the ICRP, as I have said, the current radiation risk model on which all the pension appeals refusals have been based is unsafe for the purposes of assessing harm from internal exposure to certain fission products and residual radioactive products during the weapons tests. And of course Mr Hallard and Mr Haylock, who are giving evidence for the Secretary of State, have not addressed this issue at all, and indeed the Secretary of State has not addressed our arguments in our statement of case despite having been directed by your Lordship so to do.

So we have no response from the Secretary of State on these extraordinarily important and key issues.

We have said that this risk model is unsafe. The Secretary of State has called Mr Hallard to just account for the doses on the basis of the conventional risk model and so he has come up with some numbers which following some questions he had to change into different numbers, but at no point did any question get responded to regarding whether or not those numbers were meaningful at all in terms of the health effects of the radiation of the exposures that these servicemen had suffered.

In particular, these problems applied to the element

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uranium which was main component of all the tests in terms of mass. The Grapple Y bomb dispersed 3 tonnes of uranium nanoparticles over Christmas Island and the sea nearby which of course brought the particles on shore as one of our experts will say.

The residual radioactive material, tritium, which is

another element which was not apparently measured, or at least the Secretary of State tells us there is no documentary evidence that they measured it, nevertheless it was in the drinking water at Christmas Island. This exposure cannot be quantified.

New scientific research has shown that uranium has an unusual and serious capacity for genetic damage because it binds chemically to DNA and it amplifies natural background radiation effects as our witnesses Professor Howard and Professor Hooper will say.

Now, the effects of these genetic damages to the DNA would be to cause increases in cancer, and this is of course what these appeals are about, but also in the genetic effects in the offspring, and your Lordship did make a disclosure order to obtain data from the British nuclear test veterans' questionnaires from the University of Dundee, and although there wasn't a lot of time to do it we have analysed, or our experts have analysed these data and shown a tenfold excess of

medical epidemiology to decide whether or not there is a case to answer with regard to the particular question that is being asked.

So anyway basically that is an outline of where we are now. As I said before, and finally, this is a very important case because since we are all exposed to these weapon fallouts in the '60s and in the milk we are all of us test veterans, everyone here.

Thank you for your patience, my Lord.

Thank you for your patience, my Lord.

MR JUSTICE BLAKE: Thank you very much.

Opening submissions by MR CHARLTON

MR CHARLTON: My Lord, I also have a very short statement
that was originally written by Group Captain Ades before
he was taken ill. It won't take very long. Out of
respect for the fact that he troubled to make it, and it
has been served, it's a very short opening on behalf of
Battersby.

MR JUSTICE BLAKE: Well, we'll hear it. However, it's not usually the case that we hear leading and junior counsel opening appeals if you are both representing the same team rather than one representing one and one the other, and for the interests of economy I think you are going to have to dovetail your function so we hear from one and it needs to be explained who is dealing with what so I can follow it.

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genetic damage in the offspring --

MR JUSTICE BLAKE: That's the Rabbett Roth questionaires?

DR BUSBY: The Rabbett Roth questionnaires. That's right, my Lord.

And high levels of congenital malformations in children and grandchildren. Also in other scientific papers in the peer review literature which may or may not be in journals which your Lordship considers to be sufficiently important to believe.

Now in addition we see genetic damage in a sample of New Zealand veterans who have shown a significant excess of chromosome aberration damage which is an indicator of prior exposure of radiation.

So finally let me just conclude by returning to what I consider to be the most persuasive evidence and we will put this to Mr Haylock -- Dr Haylock, I'm afraid, I'm sorry -- Dr Haylock, who is a statistician and a mathematician, as I understand, and we will ask him what the probability is of four of the veterans, four of the appellants in this case all dying of pancreatic cancer given that the background rate of pancreatic cancer as a proportion of all cancers is about 2 per cent. I could anticipate his answer at least by saying that it's extremely small and it's certainly much smaller than the normal key value which is used in

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MR CHARLTON: My Lord, yes.

2 MR JUSTICE BLAKE: With that caveat, bearing in mind the

time if you would like --

4 MR CHARLTON: I will crack on. He says:

"My Lord, with your permission I shall open briefly for the Battersby and Smith appellants before Dr Busby takes you through the essence of our case."

Well, that's the other way round.

"I am delighted to note that in his submitted skeleton my learned colleague for the Secretary of State has touched upon the history of the Service Pension Order and explained the crucial role of medical advisers in assessing claims for war pensions. I hope the Tribunal will forgive me for observing that such an explanation [in the skeleton] is incomplete without reference to the status of servicemen and women who, being mere servants of the Crown, lack the great majority of what today we call employment rights, including pay, remuneration being Crown bounty and as such not an entitlement. That might go some way to explaining why Parliament decreed a unique entitlement under the SPO and a unique standard of proof as recently reaffirmed by Charles CP in the Upper Tribunal.

"I shall, my Lord, cover that standard of proof in more detail at the appropriate time. I seek permission

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20 (Pages 77 to 80)

clause of article 41(5) 'the benefit of that reasonable doubt shall be given to the claimant. The resultant colour, to put it more strongly, on the decisions to reject war pensions because of failing to consider the final clause of 41(5), that's to say the benefit of that reasonable doubt should be given to the claimant, and the judgment of the Upper Tier per benefit of that reasonable doubt should be given to the claimant, and the judgment of the Upper Tier per by the decisions to reject war pensions because of 41(5), that's to say the benefit of that reasonable doubt should be given to the claimant, and the judgment of the Upper Tier per by the decisions to reject war pensions because of failing you the decisions to reject war pensions because of failing you the decisions to reject war pensions because of failing you the decisions to reject war pensions because of failing you the decisions to reject war pensions because of failing you the decisions to reject war pensions because of failing you the decisions to reject war pensions because of failing you the decisions to reject war pensions because of failing you the decisions to reject war pensions because of all failing you the decisions to reject war pensions because of failing you the decisions to reject war pensions because of all failing you the failing you with failing you? Page 81 1 Charles CP does a great disservice to claimants and the appellants we represent. This can perhaps be seen at a page 83 1 Charles CP does a great disservice to claimants and the appellants we represent. This can pension be a said isservice to represent at the simplest level in the refusal to accept CLL and PC as a radiogenic when there is considerable evidence as to the summable the simplest level in the refusal to accept CLL and PC as a radiogenic when there is considerable evidence as to the contrary and at a far more profound level in the evidence as to the contrary and at a far more profound level in the evidence as to the evidence as to the evidence as to the evidenc				
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4 I think that has already been prepared actually, 5 my Lord. Then he goes on: 6 "There, my Lord, I respectfully remind the Tribunal 7 that our appellants were servicemen of low rank who were 8 sent into, we claim, harm's way and had no alternative, 9 save only a court martial, other than to go and have, we 9 shall show, suffered severe illnesses and chromosome 11 damage caused by exposure. 12 "I briefly submit here and will develop in more 13 dental later that the Scereatry of State for Defence has 14 not taken any notice of either the full paragraph of 15 article 41(5) or of Charles (29's mills concerning the 16 standard of proof in the Upper Tribunal. Neither, and 17 arguably even more importantly, his my learned friend 18 thought if it fit o mention in his selection the concluding 19 clause of article 41(5) the benefit of that reasonable 10 doubt shall be given to the claimant. 21 "The resultant colour, to put it more strongly, on 22 the claimant, and the judgment of the Upper Tier per 24 benefit of that reasonable doubt should be given to the 25 claimant, and the judgment of the Upper Tier per 26 claimant, and the judgment of the Upper Tier per 27 Page 81 1 Charles CP does a great disservice to claimants and the 28 appellants we represent. This can perhaps be seen at 30 the contravy and at a far more profound level in the 4 presumably delberate determination of the SSD to 4 prevent his expert from even considering, let alone 4 commenting on, the possibility of an alternative 4 protector for assessing radiation rask to that of the 5 provent his expert from even considering, let alone 5 commenting on, the possibility of an alternative 6 prevent his expert from even considering either the fire fire fire for the fire fire fire for the fire fire	2	hearing covering that and key evidential points we shall	2	Yes, you've made a witness statement, we know, and
5 my Lord. Then he goes on: 6 "Here, my Lord, I respectfully remind the Tribunal 7 that our appellants were servicemen of low rank who were 8 sent into, we claim, harm's way and had no alternative, 9 save only a court martial, other than to go and have, we 10 shall show, suffered severe illnesses and chromosome 11 damage caused by exposure. 12 "The richly submit here and will develop in more 13 detail later that the Secretary of State for Defence has 14 not taken any notice of either the full paragraph of 15 standard of proof in the Upper Tribunal Neither, and 16 standard of proof in the Upper Tribunal Neither, and 17 article 41(5) or of Charles CP's tuling concerning the 18 thought it fit to mention in his skelcton the concluding 19 clause of article 41(5) 'the benefit of that reasonable 20 doubt shall be given to the claimant." 21 "The resultant colour, to put it more strongly, on 22 the decisions to reject war pensions because of finding 23 to consider the final clause of 41(5), that's to say the 24 benefit of that reasonable doubt should be given to the 25 claimant, and he judgment of the Upper Tire per 26 as radiogene when there is considerable evidence as to 27 the contrary and at a far more protoand level in the 28 prevail is expert from even considering, let alone 29 protocol for assessing radiation risk to that of the 21 Charles CP does a great disservice to claimants and the 22 appellants we represent. This can perhaps be seen at 23 the consider the final clause of 41(5), that's to say the 24 as radiogene when there is considerable evidence as to 25 the contrary and at a far more protoand level in the 26 prevent his expert from even considering, let alone 27 as radiogene when there consolidering, let alone 28 commenting on, the possibility of an alternative 29 protocol for assessing radion risk to that of the 30 LCBR BUSBY: We will start with Mr Bramhall, yes. 31 MR JUSTICE BLAKE: Well, that's a bad start. Let's get it 32 in fine that the sound of the possibility of an alternative 33 the contrary and	3	put before you."	3	that is at tab 213, isn't it. Just let me get that. Do
There, my Lord, I respectfully remind the Tribunal that our appellants were servicemen of low rank who were sent into, we claim, harm's way and had no alternative, save only a court martial, other than to go and have, we shall show, suffered severe illnesses and chromosome damage caused by exposure. 11 charles of the decision of the disputes – so that's the point. Do you want to clarify, to correct of the disputes of the dispute were more importantly, has my learned friend that arguably even more importantly, has my learned friend that arguably even more importantly, has my learned friend that dispute the decisions to reject war pensions because of failing clause of article 41(5) or of Charles CP and ingo consider the final clause of 41(5), that's to say the benefit of that reasonable doubt should be given to the claimant, and the judgment of the Upper Tree per Page 81 1 Charles CP does a great disservice to claimants and the appellants we represent. This can perhaps be seen at the simplest level in the refusel to accept CLL and PC. as a radiogenic when there is considerable widence as to the contrary and at a far more profusand level in the preventably deliberate deem instinct of the SD1 to prevent his expert from even considering, let alone commenting on, the possibility of an alternative commenting on, the possibility of an alternative flow of the disputes as well as the case of evidence and the opinion of many experts. 1 Tan grateful for that opportunity, my Lord. If there was a lintle bir of duplication risk to that of the preventably deliberate deemination of the SD1 to private of manual prevents. 1 Tan grateful for that opportunity, my Lord. If there was a lintle bir of duplication of the discounter of the light of the decisions to reject to claimants and the opinion of many experts. 1 Tan grateful for that opportunity, my Lord. If there was a lintle bir of duplication of the discounter of	4	I think that has already been prepared actually,	4	you want to ask any supplementaries?
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11 damage caused by exposure. 12 "I briefly submit here and will develop in more of detail later that the Secretary of State for Defence has not taken any notice of either the full paragraph of a ritcle 41(5) or of Charles CP's ruling concerning the 15 article 41(5) or of Charles CP's ruling concerning the 16 standard of proof in the Upper Tibunal. Neither, and 17 arguably even more importantly, has my learned friend thought it fit to mention in his skeleton the concluding 19 clause of article 41(5) 'the benefit of that reasonable doubt shall be given to the claimant. 19 clause of article 41(5) 'the benefit of that reasonable doubt shall be given to the claimant. 20 the decisions to reject war pensions because of failing 22 to consider the final clause of 41(5), that's to say the benefit of that reasonable doubt should be given to the claimant, and the judgment of the Upper Tier per 25 the contrary and at a far more profound level in the claimant, and the judgment of the Upper Tier per 25 the contrary and at a far more profound level in the epiesumably deliberate determination of the SSD to 7 prevent his expert from even considering, let alone 8 commenting on, the possibility of an alternative 9 protocol for assessing radiation risk to hat of the 10 ICRP which also flies in the case of evidence and the 11 opinion of many experts " 12 I am graftfull for that opportunity, my Lord. If there was a little bit of duplication on the points that 14 Dr Bussby mised I apologise. Thank you. 18 MR JUSTICE BLAKE: BlaKE: We my probably need to keep your voice up a little bit I odd with anta, if you can. 21 THE WITNESS: If 1 sit down nearer to the mike. 22 MR JUSTICE BLAKE: Vest Du probably need to keep your voice up a late bit bit odd with a flat, if you can. 23 THE WITNESS: Okay. 24 The province of the second of the SSD to 10 to very late of the province of the second of the second of the second of the SSD to 10 to very late of the province of the second	9	save only a court martial, other than to go and have, we	9	So that's the point. Do you want to clarify, to correct
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16 standard of proof in the Upper Tribunal. Neither, and 17 arguably even more importantly, has my learned friend 18 thought if fit to mention in his sketcon the concluding 19 clause of article 41(5) 'the benefit of that reasonable 20 doubt shall be given to the claimant. 21 "The resultant colour, to put it more strongly, on 22 the decisions to reject war pensions because of failing 23 to consider the final clause of 41(5), that's to say the 24 benefit of that reasonable doubt should be given to the 25 claimant, and the judgment of the Upper Tier per 26 Page 81 1 Charles CP does a great disservice to claimants and the 2 appellants we represent. This can perhaps be seen at 3 the simplest level in the refusal to accept CLL and PC 4 as radiogenic when there is considerable evidence as to 5 the contrary and at a far more profound level in the 6 presumably deliberate determination of the SSD to 7 prevent his expert from even considering, let alone 8 commenting on, the possibility of an alternative 9 protocol for assessing radiation risk to that of the 10 ICRP which also flies in the case of evidence and the 11 opinion of many experts." 12 I am grateful for that opportunity, my Lord. If 13 there was a little bit of duplication on the points that 14 Dr Bramhall? 15 Dr BuSBY: I can't put to him anything that isn't in the 20 with elastement? 20 MR JUSTICE BLAKE: Not by way of further evidence, because then that would be going beyond his statement. I'm 22 MR JUSTICE BLAKE: He me try a couple of questions to give 23 you the flavour of this. 24 A No, my Lord. 25 MR JUSTICE BLAKE: Well, that's a bad start. Let's get it 26 in front of you? 28 Page 83 29 Page 83 20 A. No, my Lord. 21 MR JUSTICE BLAKE: Well, that's a bad start. Let's get it 22 in front of you. (Handed) If you take out SB1. If you 23 go to the very last tab, it should be 23: 24 A. No, my Lord. 25 MR JUSTICE BLAKE: Well that would be seen at 26 the contrary and at a far more profound level in the 27 the contrary and at a far more profound level in the 28 mr J	14	not taken any notice of either the full paragraph of	14	dialogue, because otherwise that's going to duplicate,
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21 (Pages 81 to 84)

1	your knowledge and belief?	1	out was there any other question that you wanted to
2	A. Yes.	2	pose to Mr Bramhall before you tender him for
3	MR JUSTICE BLAKE: Is there anything that you need to	3	cross-examination?
4	correct in the light of anything that you've come to	4	DR BUSBY: Well, my Lord, there were quite a few questions,
5	learn about since 2 October 2015?	5	but it seems that I'm not really permitted to ask them.
6	A. I think at some point I said I held I had recorded	6	MR JUSTICE BLAKE: Well, if you are going to ask him about
7	tapes of all the CERRIE meetings, but I since found that	7	things that are in the witness statement it's just
8	I don't have the tapes of the first two. I think that's	8	a waste of time. So I'm cutting that out. That's not
9	a relatively minor manner.	9	the way we do it in these proceedings. That's what I
10	MR JUSTICE BLAKE: So there are tapes if anyone of other	10	said to you last time and I said on Friday and I have
11	meetings, if anyone wants to go into that topic.	11	tried to spell it out. I appreciate you may not be
12	A. There are tapes from 3 to 16 inclusive, and all the	12	familiar with this kind of case management but that's
13	epidemiological sub-group meetings.	13	the idea.
14	Am I speaking clearly enough?	14	But is there anything additional to the statement
15	MR JUSTICE BLAKE: Yes, I have that, thank you very much.	15	that is important to the issues in this case that
16	You have told us about that meeting.	16	somehow, for some reason or other, because it was
		17	
17 18	Apart from that, there's nothing else you wish to amend?	18	prepared in October, has not gone into the statement? DR BUSBY: No, my Lord.
18		19	
20	A. No, my Lord. MR JUSTICE BLAKE: Or correct or amplify?	20	MR JUSTICE BLAKE: Thank you very much. MR CHARLTON: I'm sorry, my Lord, the reason I am popping
	* *	20 21	
21	A. No corrections. Well, amplification might be another	21 22	up, just a technical point, my Lord. In the criminal
22	matter.	22 23	court you can only, by way of re I presume he will be
23	MR JUSTICE BLAKE: What is it that you you think you		permitted to re-examine after
24	might want to add to something that you told us about?	24	MR JUSTICE BLAKE: Of course. We'll get on to that.
25	A. Well, it's quite a long time since I wrote this.	25	MR CHARLTON: Could I just
	Page 85		Page 87
1	MR_ILISTICE_BLAKE: Well_have you read it? Have you	1	MR_JUSTICE_BLAKE: No_please sit down
1 2	MR JUSTICE BLAKE: Well, have you read it? Have you refreshed your memory from it?	1 2	MR JUSTICE BLAKE: No, please sit down. MR CHARLTON: As long as the re-examination isn't
2	refreshed your memory from it?	2	MR CHARLTON: As long as the re-examination isn't
2 3	refreshed your memory from it? A. No, my Lord, except that I well, the point I just	2 3	MR CHARLTON: As long as the re-examination isn't necessarily restricted to that which was raised in
2 3 4	refreshed your memory from it? A. No, my Lord, except that I well, the point I just made about the tapes I observed from counting the tapes,	2 3 4	MR CHARLTON: As long as the re-examination isn't necessarily restricted to that which was raised in cross. That was my only point, my Lord.
2 3 4 5	refreshed your memory from it? A. No, my Lord, except that I well, the point I just made about the tapes I observed from counting the tapes, not by examining the record. It's my memory that I said	2 3 4 5	MR CHARLTON: As long as the re-examination isn't necessarily restricted to that which was raised in cross. That was my only point, my Lord. MR JUSTICE BLAKE: Well, I have indicated that you can
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1	A. Yes.	1	neutral in their search, their professional search for
2	Q. Could you turn to you will find with all these	2	truth. And Peter Roche well, what we suggested, or
3	bundles there are cardboard tabs with numbers on them	3	what actually I suggested to Michael Meacher was that
4	and we need number 60.	4	a nominee from Greenpeace should be sought. I didn't
5	A. Yes.	5	know who it was. When I've learned that it was
6	Q. I am sure this is a document you are familiar with, this	6	Peter Roche I realised that well, I knew that I had
7	is the CERRIE report, the report of the committee report	7	never discussed these matters with him. I didn't know
8	examining radiation risks of internal emitters.	8	which side of the pro and anti ICRP risk model he would
9	A. Yes.	9	jump.
10	Q. If you turn to page 3, please.	10	Q. We see at footnote 5, just for clarity, you agree he was
11	MR JUSTICE BLAKE: Substantive 3.	11	employed with Greenpeace, although I think at the time
12	MR HEPPINSTALL: Substantive 3.	12	of writing the report he was not employed by Greenpeace.
13	A. I'm with you.	13	A. That I believe is true, yes.
14	MR HEPPINSTALL: Paragraph 8 at the top of that page. It's	14	Q. So we see from the members it was you represented the
15	right, isn't it, that CERRIE was set up by COMARE, which	15	Low Level Radiation Campaign and Dr Busby representing
16	is a standing Government committee looking at the risks	16	Green Audit. That's right, isn't it?
17	of ionising radiation?	17	A. Yes.
18	A. It was set up the organisation of it I always assumed	18	Q. It's true, isn't it, that there is considerable overlap
19	was handled by COMARE, yes, although the sponsoring	19	in fact between the LLRC, the Low Level Radiation
20	departments were DEFRA, where Michael Meacher was	20	Campaign, and Green Audit?
21	a minister, and by the Department of Health, where	21	A. Overlap in what sense?
22	somebody whose name at the moment eludes me.	22	Q. In terms of membership and organisation.
23	Q. And you see there that it says	23	A. Well, certainly Dr Busby is and always was the Director
24	A. Cooper.	24	of Green Audit, and he is a Director of the Low Level
25	Q in the second sentence:	25	Radiation Campaign, which is established and constituted
	Page 89		Page 91
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1	"Although established under the auspices of COMARE,	1	as a company limited by guarantee which has directors.
2	CERRIE was independent of COMARE and its funding	2	Dr Busby has always been one of those directors.
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23 (Pages 89 to 92)

		1	
1	MR HEPPINSTALL: 23.	1	as ourselves that there was a debate between ICRP
2	It's right, isn't it, that you and Dr Busby put to	2	methodology for equivalent dose and criticisms of that
3	the committee for their consideration certain arguments	3	approach and the 2003 recommendations of the ECRR
4	or theories in which you both believed?	4	suggesting a different approach. Does that ring a bell?
5	A. Dr Busby put forward lists of concerns which included	5	A. Not as far as the drafting of 2.6 goes. I have
6	the second event theory, for example. Perhaps you could	6	MR JUSTICE BLAKE: Well, was that what was happening as part
7	give me the guidance as to what else you might be	7	of the work of this committee?
8	thinking of.	8	A. No, my Lord.
9	Q. Certainly. Here we are looking at section 2.6 which is	9	MR JUSTICE BLAKE: So there wasn't a debate between the two
10	about the ICRP dose co-efficients. Do you see that is	10	methodologies.
11	the main heading?	11	A. The whole process of the 16 meetings was in effect
12	A. Yes, I do.	12	a debate an approach on the two methodologies, but it
13	Q. Here there is a discussion about the validity of those	13	was not conducted by a comparison of the texts of ICRP
14	ICRP dose co-efficients, just to give you your	14	recommendations and those of the ECRR. It was conducted
15	orientation.	15	by examining various health phenomena and theoretical
16	Then if we look at paragraph 50 on page 25 we see	16	considerations of biological mechanisms, and
17	that the committee records:	17	epidemiological studies, which would, in effect,
18	"The two committee members who had been involved in	18	depending on how you arrive at an evaluation of those
19	formulating the alternative methodology given in the	19	things, would provide support for ICRP's risk modelling,
20	2003 recommendations [I'll shorten it ECRR] outlined	20	or possibly for something that was more conservative,
21	their approach."	21	more protective, like the ECRR.
22	We see the two are named as Dr Busby and	22	So if, for example, it turned that there was
23	Mr R Bramhall. So it's right that you outlined to the	23	a substantial excess of breast cancer around the
24	committee your belief and support and involvement with	24	Blackwater Estuary, which is known to be contaminated
25	the ECRR 2003 recommendation?	25	with radioactive substances pumped out by the Bradwell
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	which this report is a pack of lies. I'm not disavowing my support for the general approach advised by the ECRR, but it is not true that I had formulated that in any sense at all. I am — I am not and never have been a member of the ECRR. Q. Is it right that somebody outlined the ECRR approach to the committee? A. I have no memory of any meeting at which it was outlined. Just glancing through this paragraph, which is a little dense, it's too dense for me. MR JUSTICE BLAKE: Do you want to read the paragraph? A. To myself, my Lord? MR JUSTICE BLAKE: Yes, if it would help you read the question. A. Fine. (Pause). Yes, I have read it. Can you repeat the question? MR HEPPINSTALL: It's someone outlining to the committee the 2003 recommendations of the ECRR? A. I've no memory of that happening. It would be very easy to produce this paragraph just from a reading of the 2003 recommendations themselves, which are an open document freely available. MR JUSTICE BLAKE: Read as a whole, part 2.6, which	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	the ECRR risk model because — MR JUSTICE BLAKE: I am asking a very general question to help me focus upon the question — A. My Lord, I was attempting to give you a helpful reply. MR JUSTICE BLAKE: I think that was slightly going off the topic, but I'll hand you back to Mr Heppinstall who can ask any questions he wants. But I see what the time is. MR HEPPINSTALL: As you go on in this text there is discussion of the ECRR model, isn't there? A. Are we going back to —? Q. Paragraph 50. A. Paragraph 50. Yes, sir. Q. Furthermore there is a comment: "However, other members pointed to a lack of evidence for risks from 90Sr that were orders of magnitude greater than expected." So it's clear, isn't it, Mr Bramhall, that the members of the committee considered the text of ECR? A. I have no memory of it and I was at the entirety of every meeting on that committee. I don't believe that ECRR recommendations were ever an agenda item. Q. But just looking at this text, somebody read it, thought about it, provided this comment, so it was considered by

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1	A. I think I've	1	what I had said.
2	Q. Or at least some members of the committee?	2	MR HEPPINSTALL: My Lord, I am going to move on to a operate
3	A. Well, if they considered it if other members of the	3 4	topic.
4	committee considered it, it was outside my purview and,	5	MR JUSTICE BLAKE: That is probably an appropriate time.
5	as I said, I don't believe it was ever on the agenda.	1	We'll break now because we've just hit one o'clock. We
6	I would have to go back to all the agenda papers and	6 7	will return at two o'clock, please.
7	check them through in order to put my hand on my heart	1	Now, you are in the middle of giving your evidence.
8	and swear that that were totally true, but it is my	8	The general rules in the civil courts which we can adopt
9	belief and my impression from my memory.	9	for this Tribunal is that you don't discuss your
10	Do bear in mind, please, that this committee ended	10	evidence with anybody else.
11	12 years ago.	11	THE WITNESS: By all means.
12	Q. The final sentence records, does it not, the conclusion	12	MR JUSTICE BLAKE: You can say hello and where am I and
13	of the majority of the members who were not persuaded by	13	where is the building, but do not talk about this case.
14	the scientific merit or validity of the ECRR approach.	14	Thank you, two o'clock, please.
15	That was the proper and true conclusion of the	15	THE WITNESS: Can I leave all this paperwork?
16	majority of the members, wasn't it?	16	MR JUSTICE BLAKE: Yes, you can leave all that there.
17	A. I think really I have answered that question. It can't	17	(1.05 pm)
18	have been a true and proper conclusion of such	18	(The short adjournment)
19	discussions if those discussions never took place. The	19	(2.00 pm)
20	manner in which this report purports to tell you how	20	MR JUSTICE BLAKE: Do we need the screen up? I think it's
21	people thought and how people voted is a travesty.	21	just testing, is it?
22	These decisions were kind of but I believe that these	22	Right, yes, we'll carry on with your questions.
23	decisions were conjured up in the minds of whoever wrote	23	MR HEPPINSTALL: We are in volume SB6, Mr Bramhall. Could
24	this report, and it is true (and this is provable too)	24	you turn to page 50 in the tab we are already in, the
25	that there were pretty well every meeting there were	25	CERRIE report at tab 60?
	Page 97		Page 99
1	huge discrepancies in the minutes between what actually	1	A. Before we go on, I reflected over lunch that there is
2	was said and what was then recorded. And, in	2	something I may wish to re-visit about the ECRR.
3	particular, the minutes are shot through right from	3	Q. The ECRR?
4	number well, right from the beginning, where this	4	A. Yes.
5	kind of voting was suggested with such formulations of	5	Q. Yes.
6	two thought this, the others thought that.	6	A. I recall there was an earlier document issued by the
7	If there is any validity in those conclusions they	7	ECRR which did have my name in the back of it, along
8	are done on the basis of how the report writer or	8	with a great many others, largely environmental
9	the minutes writer perceived the balance of the debate	9	organisations.
10	to be going in the relevant meetings. There was no	10	Q. Right.
11	formal vote-taking, nothing was written down by us or	11	A. I'm not quite sure what status those people were
12	agreed by committee members during the meetings or at	12	recorded in that list. The point I was making was that
13	the subsequent minutes.	13	by no means am I a scientific member of the ECRR and
14	I have to tell you that the actual process of	14	I know that more recent publications of the ECRR don't
15	approving the minutes was extremely fraught,	15	contain any such lists. They are composed insofar as
16	extremely-time consuming.	16	they list anybody, they have the list of the scientific
17	Since I had the digital audio tapes I spent, every	17	members.
18	time there was a CERRIE meeting, I think at the minimum	18	Q. You say you are not a scientific member, but do you hold
19	of three, perhaps four days, going through the tapes and	19	any sort of membership or association or otherwise with
20	checking the accuracy of what was said in the minutes,	20	the ECRR?
21	correcting the minutes by means of tracked changes in	21	A. None.
22	the Word file and submitting them back to the	22	Q. None.
23	secretariat. Sometimes, eventually, to see that my	23	A. It's not really a membership organisation, and in that
24	amendments had been incorporated, sometimes they had not	24	respect it's very similar to the ICRP where people get
25	and in some cases there were quite gross distortions of	25	listed on publications just because they exchanged
	1 0		Francisco Maria Commission

1	a couple of letters and some people I've heard express	1	animal experiments in the past that may have
2	considerable well, some sort of reluctance to be so	2	
3	identified by ICRP.	3	inadvertently fulfilled second event criteria."
4	MR JUSTICE BLAKE: Let's just focus on you and the ECRR.	4	So you agree, do you, that the committee went so far
5		5	as to actually commission a review by an independent
	You are not a scientist, you are not a scientific member and not a member of it?		consultant?
6		6	A. That is certainly true. It begs the question of whether
7 8	A. No, it has no members, not in a formal sense, my Lord. MR HEPPINSTALL: Is there Mr Bramhall, is there	7 8	he was looking at the right sort of information, or
9	*	9	whether the studies that he did look at actually did
10	any sense MR JUSTICE BLAKE: Is there an informal sense?	10	reproduce the second event criteria. Q. And in the next sentence it said:
11	MR HEPPINSTALL: any sense in which you've been	11	"The author of the review concluded that the
12	associated with or related to the ECRR?	12	
13	A. I've given them money. The Low Level Radiation Campaign	13	overwhelming majority of the evidence indicated no such enhancement."
14	has given them money in the same way that the nuclear	14	That was the result of the review?
15	industry helps to support the ICRP	15	A. Yes.
16	MR JUSTICE BLAKE: Let's just deal with you.	16	Q. Paragraph 33:
17	MR HEPPINSTALL: So you have given them money, you have said	17	"Two members objected to the content of the review
18	that your name came to be on one of their early	18	and disagreed with its conclusions."
19	publications.	19	The two members were you and Dr Busby?
20	A. Yes.	20	A. It's one of those instances where the secretariat has
21	Q. Anything else?	21	inferred the amount of support that there was for any
22	A. No.	22	particular contention. I don't remember making any
23	Q. So we are looking at page 50. You mentioned earlier in	23	comment on the matter of the review. I know perfectly
24	answer to another of my questions, the second event	24	well that Dr Busby had some severe reservations about
25	theory and here we have just to orientate yourself on	25	the way it had been carried out and the criteria that
			·
	Page 101		Page 103
1	these two pages here pages 50 and 51 CERRIE	1	had been annlied
1 2	these two pages here, pages 50 and 51, CERRIE	1 2	had been applied. I neither associated myself nor disassociated myself
1 2 3	considering the second event theory. It's right what	2	I neither associated myself nor disassociated myself
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26 (Pages 101 to 104)

1	"On the other hand, the other members of the	1	A. By inference, yes. I would sign up to that if we're
2	committee were supportive of the conclusions of the	2	talking about signatures.
3	commission"	3	Q. Well, did you or did you not put forward those theories,
4	So all the other members apart from you and Dr Busby	4	matters, items, before the committee for consideration?
5	supported the conclusions of the literature review?	5	A. I did not. Dr Busby did. I would I would consider
6	A. By inference, I think, the same way as the reportage has	6	that there is a great deal in I don't know exactly
7	treated Dr Busby and me they've treated the others.	7	what is referred to by the hot we've dealt with the
8	Some would have been quite vocal. Others would have	8	second event theory. I'm not exactly sure what is meant
9	stayed completely schtum.	9	here by the hot particle theory.
10	Q. As I understand it this is the report of the committee.	10	MR JUSTICE BLAKE: Yes, well, that's an issue. What you are
11	Bar you and Dr Busby, and we'll look at your minority	11	being asked for, or about, is whether you thought that
12	report in a moment, the rest of the members of the	12	ICRP risk models were very inaccurate by reason of other
13	committee have signed up and agreed this text. So they	13	scientific theories.
14	are composed of the other members. So it's not just	14	A. Thank you, my Lord. I think the answer, just to cut
15	an inference, is it? This report is published by people	15	this short, is yes.
16	who are saying that they were supportive of the	16	MR JUSTICE BLAKE: Yes.
17	conclusions of the commission review. It's positive	17	MR HEPPINSTALL: Mr Bramhall, to be clear, I accept what you
18	support for that review from the other members of the	18	say in your witness statements that you are a layperson,
19	committee, isn't it, it's not just an inference?	19	not a scientist. But I am just asking about your lay
20	A. Your assertion depends upon the expression "signed up	20	involvement on this committee, about whether you did X
21	to" and I'm aware of no signing up process.	21	or Y. I am not trying to trip you up by getting you to
22	Q. Well, we'll look at the first bit of the report in	22	say something which would imply that you are a scientist
23	a moment and we'll come back to that.	23	or an expert. So it's just your lay involvement in this
24	At paragraph 34 we have it again:	24	committee, whether you supported something or agreed
25	"The view of the committee apart from two members	25	with something. Do you understand?
	Page 105		Page 107
		,	
1	was that the available studies to date offered little or	1	A. Yes, I understand, but what I am asking you, if you can
2	no support to the second event theory as propounded by	2	understand that my lay involvement just could not amount
3	Dr Busby. Instead the available evidence substantially	3 4	to a valid scientific opinion on the issue, on these
4 5	contradicted it."	5	highly specific issues. Q. We can just finish off that paragraph for balance
6	So not only did the committee let's call them the majority of the committee, all of them apart from you	6	because you can see that about a third of the committee
7	and Dr Busby didn't find support, they actually	7	disagreed with these theories, with the view that the
8	thought there was evidence going the other way	8	ICRP risk estimates were greatly inaccurate. Do you
9	contradicting the second event theory, didn't they?	9	agree with that?
10	A. That's what this report, says. My memory of that part	10	A. It's interesting to read but in the absence of any
11	of the discussion is not really sufficiently reliable to	11	really thoroughgoing discussion on the committee about
12	allow me to comment.	12	topic by topic by topic, who agreed with this, who
13	Q. If we just turn to page 53, and perhaps to shorten	13	agreed with that, it remains just interesting and I'm
14	matters without going through each and every topic that	14	not too sure who might have signed up to this, that or
15	was raised by you and Dr Busby, we can see at	15	the other thing. The point which I've made several
16	paragraph 40 that it says:	16	times is that the secretariat made up the minutes as
17	"On the second event theory, hot particle theory,	17	they went along and that fed through into the
18	biphasic response and artificial versus natural	18	composition of this final report.
19	radionuclides, two members considered that together	19	Q. About another third also disagreed with the above
20	these theories meant that current ICRP risk models were	20	theories but considered the current radiation risk might
21	very inaccurate and could underestimate the true level	21	still be seriously underestimated in some cases though
22	of radiation risk by 2 to 3 orders of magnitude or	22	for different reasons.
23	more."	23	Do you recall that?
24	Now, those two members were you and Dr Busby,	24	A. Well, it goes into the same basket as my previous
25	weren't they?	25	answers.
	D 407		D 400
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1	Q. Let's just look at the treatment of epidemiology, 74 to	1	Small Area Health Statistics Unit. They had looked
2	75.	2	after we had published our first paper they came along
3	Paragraph 51:	3	and looked at the same phenomenon and found that there
4	"Cancer rates in coastal and estuarine areas in	4	was no effect, no excess of cancer around the estuary,
5	Great Britain.	5	but it turned out that they had made a mistake and once
6	"Two members requested the committee consider	6	the mistake was corrected the wards that the the
7	whether there were increased rates of cancer near the	7	Local Authority wards that they had missed, once those
8	Bradwell power station."	8	were reinserted then they came to the same conclusion as
9	Now were you party to that request?	9	we had.
10	A. Definitely, and the point is, if I might expand on that,	10	So
11	that epidemiology is a simpler matter for a person like	11	MR JUSTICE BLAKE: Reading para 52 it appears there was an
12	me to get his head round than the detail of things like	12	epidemiology subcommittee.
13	the second event theory and whatever is meant by the hot	13	A. That's correct, my Lord.
14	particle theory.	14	MR JUSTICE BLAKE: Do we know who the members of the
15	I was associated with several papers on epidemiology	15	subcommittee were? Is it elsewhere in the report?
16	together with Dr Busby over the years and one of these	16	A. I think it might be but I can tell you.
17	was a study of cancer around the Blackwater estuary	17	MR JUSTICE BLAKE: If you can tell us, that will save
18	which is contaminated by radioactive substances pumped	18	checking.
19	out by the Bradwell power station.	19	A. The chairman was the main man, the self-appointed main
20	So it is quite clear to me, looking at the data and	20	man on the secretariat, Ian Failie, Richard Wakeford,
21	looking at the way that the cancer rates vary from	21	Colin Muirhead, myself and Dr Busby.
22	inland wards to wards which border the Blackwater	22	MR JUSTICE BLAKE: Right. Thank you very much.
23	estuary that there is an effect. And I also was	23	MR HEPPINSTALL: I think it's fair to say, and I think you
24	interested to see the correlation between the	24	can find this in the final sentence of paragraph 53,
25	concentrations of radioactivity in the mud right up at	25	there was disappointment amongst committee members that
	Page 109		Page 111
1	the inland end of the Blackwater estuary, which is	1	this initiative had failed as it had represented
2	actually 15 miles distant from the outfall from the	2	an attempt to show that opposing groups could work
3	power station where the highest female breast cancer	3	together to achieve an agreed protocol and joint
4	risks are to be found.	4	analyses of epidemiological data.
5	Q. And we see halfway through paragraph 51:	5	By opposing groups I'm assuming that
6	"The two members themselves have carried out for	6	Professor Wakeford and Professor Muirhead were on one
7	green audit a preliminary analysis of mortality data in	7	side and you and Dr Busby were on the other?
8	the area for the period 95 to 99."	8	A. Yes, that's fair enough. That's fair enough to say but
9	So you and Dr Busby had carried out for green audit	9	I've already told you that it wasn't because we couldn't
10	some epidemiological work?	10	work together. I was quite surprised that we could
11	A. Yes, that's what that's the work I was just	11	well, to find that we could.
12	describing.	12	The failure of that enterprise was not down to the
13	Q. We see at paragraph 52 that the committee proposed to	13	members of the committee; it was a fiat of the chairman.
14	undertake its own wider study. That was right, wasn't	14	Q. Paragraph 55 on that page:
15	it?	15	"Some members of the committee strongly criticised
16	A. Yes.	16	the methodology and data used by green audit, members of
17	Q. But that didn't take place because of some disagreement	17	which had produced many of the unpublished reports and
18	about the methodology?	18	did not accept the validity of the findings of those
19	A. There was a lot of argument about the wards to be	19	studies. The methodology of the green audit studies was
20	included. And without before agreement had been	20	highly suspect and the results unreliable."
21	reached, the chairman just cancelled the study,	21	The studies have also been heavily criticised by
22	certainly without asking me whether he should or could.	22	COMARE.
23	And as far as I know he didn't consult anybody else.	23	So it's right that serious criticisms of the green
24	It was quite a fraught business because mistakes had	24	audit work, including your own work, were made, weren't
25	been made both on our side and on the side of SAHSU, the	25	they?
	Page 110		Daga 112
	Page 110		Page 112

1	A. Since these criticisms are not specified or even	1	childhood leukaemia the excess of childhood leukaemia
2	outlined in this report it's impossible to say what	2	would have been contributory evidence, contributing to
3	might have been wrong. When you get a body like SAHSU	3	an assertion and eventually people might think a belief
4	actually finding in agreement with what we had found	4	that the ICRP risk model has been seriously
5	I don't think we can say that they were too unreliable.	5	underestimated, the risk of leukaemia in children who
6	Q. Well, in the middle of paragraph 55 we get the main	6	were subjected to the amount of radioactive pollution of
7	criticism which was that green audit did accept that the	7	the Welsh countryside.
8	cancer mortality data used in early studies of the	8	MR JUSTICE BLAKE: But you were one of the two committee
9	Bradwell area were in error and these were corrected.	9	members; whether "rely" is the right word or something
10	That's correct, isn't it?	10	else, it was you that there was being a reference to?
11	A. It is correct but I've already told you that SAHSU had	11	A. I would share the concern that that is good evidence for
12	made a similar error and once that was corrected we were	12	the invalidity of the ICRP.
13	in agreement and there was an excess.	13	MR JUSTICE BLAKE: I think you are just being asked
14	Q. It's right, isn't it, at the bottom of that paragraph,	14	a question about the conclusions.
15	a second data set within the original data discrepancy,	15	MR HEPPINSTALL: Let's carry on with that sentence. So it's
16	once that was removed it did not show a significantly	16	saying that you and Dr Busby agreed that the first Welsh
17	raised risk in the group of Welsh coastal communities?	17	childhood leukaemia dataset should be set aside for the
18	So once the erroneous ones were removed	18	purpose of CERRIE although they did not accept that
19	A. Hang on a minute. I'm having trouble finding	19	these data are necessarily in error, is that right?
20	Q. Sorry, the final page 75, if you go two sentences up	20	A. I have a vague memory that Dr Busby agreed to set it
21	from the bottom of the page.	21	aside without admitting that it was in error. There
22	A. "A second data set with the original"	22	were an awful lot of arguments about the reliability of
23	I've got to go back a further sentence.	23	those data.
24	Q. Take your time.	24	MR JUSTICE BLAKE: You were neutral on that or you just -
25	MR JUSTICE BLAKE: Where should the witness begin? COMARE?	25	A. I would not have contributed an opinion.
	Page 113		Page 115
1	MR HEPPINSTALL: "COMARE also concluded that these Welsh	1	MR JUSTICE BLAKE: Right.
2	data were clearly in error."	2	Can I just clarify, in order just to follow your
3	Then the next sentence.	3	evidence as we get through it, you've already told us
4	A. Yes. I've never really clearly understood from the	4	that you, like me, are not a scientist on radiological
5	outset where the discrepancy where the alleged	5	issues but do you have expertise on epidemiology and
6	discrepancies were alleged to have been. This was not	6	statistics and that kind of material?
7	a study on which I collaborated.	7	A. No, sir.
8	Q. Right. So you didn't collaborate on the Welsh coastal	8	MR JUSTICE BLAKE: So we are probably both in the same boat.
9	study; is that right?	9	Yes, sorry, I interrupted.
10	A. I didn't collaborate in the study. I didn't Busby	10	MR HEPPINSTALL: But without such expertise what were you
11	never asked me to collaborate in that. It was quite	11	doing when you were collaborating with Dr Busby?
12	heavy duty statistics. I did collaborate in obtaining	12	A. Tidying up his English quite a lot.
13	the original data which was released to us by the Welsh	13	Q. Anything else?
14	Cancer Registry. But I never had it under my control.	14	A. Proof reading, checking that the argument made sense to
15	Q. That last sentence at the end of page 75 says:	15	a layperson.
16	"The two committee members who relied upon the green	16	Q. Did you allow yourself to be named as author of any of
17	audit studies"	17	these reviews?
18	Pausing there, that was you and Mr Bramhall, wasn't	18	A. Yes, I believe so.
19	it?	19	Q. Did you make it clear when you were allowing yourself to
20	A. Well, I'm Mr Bramhall.	20	be named as author that you didn't have epidemiological
21	Q. Sorry, that was Dr Busby and you, Mr Bramhall?	21	or any relevant expertise?
22	A. Erm	22	A. No, why would I?
23	Q. Did you rely on them or not?	23	Q. Did you not think it was important that the reader
24	A. I quibble with the word "rely" in that context. The	24	understands the expertise and skills of the author?
25	contention would have been that the excess of this is	25	A. No. It's not as far as I can understand it a convention
	Daga 114		Dago 116
	Page 114	1	Page 116

1	in scientific publications that authors make such	1	A. Yes. I have to remind you I have already talked
2	disclaimers.	2	about about this, the SAHSU study.
3	Q. One might infer it, might one not, that a person being	3	Q. And did you accept that there were also errors in this
4	the author of a publication from, say, an academic	4	report?
5	institution with a professorial chair had expertise?	5	A. I already have, yes.
6	But you don't think it's important if you know you don't	6	Q. Very well. Okay.
7	have that expertise you make that clear when you are	7	A. And also errors in the SAHSU report.
8	authoring a publication?	8	MR JUSTICE BLAKE: I think Wales, which you were referring
9	A. No.	9	to, might be dealt with at points 6 and 7 at 101.
10	Q. Then just turning over the page to page 76, we see the	10	MR HEPPINSTALL: Wales follows although I wasn't going to go
11	final sentence of paragraph 55:	11	back through those.
12	"On the basis of the second agreed Welsh datasets	12	MR JUSTICE BLAKE: I was only reading ahead.
13	[this is after the erroneous data is removed] there is	13	MR HEPPINSTALL: I wondered if you were recollecting
14	little evidence of(Reading to the words) a raised	14	Bradwell. But there we are.
15	risk of childhood leukaemia near the coast of Wales."	15	A. Well, I clearly do.
16	So once the error is corrected the conclusion falls	16	Q. Can we just turn back to page 78. Just look at
17	away, Mr Bramhall?	17	paragraph 65. Again, do you recall sorry, were you
18	A. Yes, I'm the reason for the long pause is that I'm	18	one of the two committee members who considered that
19	having trouble disaggregating in my mind the memory of	19	epidemiological evidence exists for a materially
20	this particular study and the dataset on which it is	20	increased risk of non-cancer effects?
21	based and later later studies of information from the	21	A. Yes.
22	Welsh Cancer Intelligence and Surveillance Unit which	22	Q. Yes. And you pointed to the Sternglass study and the
23	does show very clearly a 12 or more fold risk of	23	White study, is that right?
24	childhood leukaemia near the Welsh coast. So I'm going	24	A. I don't recall mentioning Sternglass, but I certainly am
25	to have to plead the fifth on this one. I can't really	25	familiar with Robin White's work on mortality.
	D 447		D 440
	Page 117		Page 119
1	remember whether this one did show that. Sorry, is that	1	Q. You also, if we follow through the words, about halfway
2	what you are asking me? Did I agree?	2	down it also records that:
3	Q. Perhaps I can try to assist you because if you turn to	3	"Two committee members also referred to other
4	page 100 I think what you might be doing is confusing	4	studies of the non-cancer effects of fallout from
5	the Welsh coast studies with the Bradwell study. If you	5	weapons testing in Chernobyl which they believe
6	turn to page 1	6	supported the existence of such effects following low
7	A. Can I stop you there. I'm not confused about the	7	level internal exposure."
8	right-hand side of the country and the left-hand side.	8	Do you remember that?
9	Q. It's right the committee were so concerned to get to the	9	A. Not in detail.
10	bottom of this issue that they in fact produced	10	Q. It records that:
11	an annex, annex 4C, which starts at page 100?	11	"Insufficient time was available to the committee to
12	A. Yes.	12	examine fully these studies one study conducted in
13	Q. We've actually been looking at the conclusions which	13	the vicinity of the(Reading to the words)
14	summarise this annex but we can look at the detail if	14	considered in detail."
15	you wish. At page 100 it records in fact you were	15	A. I am sorry, you are reading a little bit too fast.
16	author of one green audit study about Bradwell, we can	16	Q. I apologise, Mr Bramhall.
17	see at the bottom of page 100?	17	MR JUSTICE BLAKE: Do you want to read that passage, "The
18	A. Yes.	18	two committee members" to the end? (Pause)
19	Q. And that SAHSU, who we see defined there, have produced	19	A. Right, I have read it, so what's the question again,
20	reports drawing conflicting conclusions about death and	20	please?
21	cancer, particularly breast and prostate cancer, around	21	MR HEPPINSTALL: Well, do you remember putting forward the
22	Bradwell nuclear power station in Essex.	22	reports about non-cancer effects of fallout from weapons
23	Do you remember that?	23	testing in Chernobyl?
24	A. Yes.	24	A. I do not, I did not. Dr Busby would certainly have
25	Q. Both groups had used ONS mortality data?	25	included these these effects in the substantial
	D 110		D 120
	Page 118		Page 120
			30 (Pages 117 to 120)

30 (Pages 117 to 120)

1	amount of paperwork which he submitted to the committee	1	the matter."
2	and I would have I would have and probably did	2	We have seen, haven't we, Mr Bramhall, that where
3	support him on putting that forward because I'm aware of	3	there was disagreement, particularly with you and
4	an enormous number of studies from Russia and the former	4	Dr Busby, it is described, as are the reasons for it,
5	Soviet Union states which do show such effects.	5	and it's all set out in the report?
6	Q. Is it right that notwithstanding that it's recorded that	6	A. The remit as you've just read it, "where consensus not
7	there was insufficient time, when one study was examined	7	possible, describe, give the reasons and identify", that
8	this was the Petroshinka(?) study it was found to	8	remit was also part of what Michael Meacher specified
9	provide only weak support for the views that you and	9	when he set up the committee.
10	Dr Busby had expressed?	10	I would agree that the committee aimed to reach
11	A. And the question is?	11	consensus but I would not agree that the committee
12	Q. Was that right?	12	described the disagreement well, they may have
13	A. Was what right?	13	described the disagreement. They don't really go into
14	Q. That in fact the committee found that one of the reports	14	the details of why there is disagreement and they
15	only provided weak support for your views?	15	signally fail to identify research to clarify and
16		16	•
17	A. Yes, quite likely.	17	resolve. There's a very massive failure there.
	Q. Do you accept		Q. And we
18	A. I would point out that, you know, quite a number of	18	A. I think I want to continue this reply.
19	these statements do include little caveats like "provide	19	Q. Please do.
20	only weak support". I would like to point out that the	20	A. The reason I'm replying in this way is because when you
21	ICRP risk model predicts no effects at the kind of doses	21	read the report you can see that the scientific
22	we are dealing with. If there is any kind of evidence	22	arguments adduced are of the nature, some said this and
23	that there was a significant, even though only weak, you	23	some said that. Some put some forward some argument and
24	can have the two things together. Something can be	24	some found evidence, some found yes, some found
25	a small effect but it can be significant. It depends	25	evidence to negate it. But there was very, very little
	Page 121		Page 123
1	upon the statistical strength of the study. Any such	1	drilling into the reasons why one study might find
2	evidence supports our contention that there is a problem	2	a positive effect and another study might not. They
3	with the ICRP way of estimating risk.	3	seem to have accepted that the existence of the study
4	Q. Don't you have to take it a step further like the	4	which negated our hypothesis was enough to destroy it.
5	committee did? But you have to take it a little step	5	But you have to look a bit harder at the nature of the
6	further, don't you, Mr Bramhall like the committee did	6	disagreements. The reason you see a large amount of
7	and you can see that in the final sentence:	7	this argument was about whether biological mechanisms
8	"Therefore [so because of the weak support] the rest	8	8
9	of the committee does not accept that there is	9	exist that could possibly account for why cancer around
	-		Bradwell could be double the rate of a neighbouring
10	sufficient evidence to support this interpretation of	10	estuary with a very similar town, where the only
11	the infant mortality data."	11	difference was one was exposed to radioactivity and the
12	A. I would say it was an illogical conclusion, for the	12	other was not.
13	reasons that I've just given you.	13	Q. You see the outcome of this failure to achieve consensus
14	Q. From the parts of the report that we have examined it's	14	at page 5, part 1.4 of the report, where we see that the
15	correct, isn't it, that the committee gave consideration	15	report was drafted by all members with assistance from
16	to the views of you and Dr Busby?	16	the secretariat.
17	A. Yes.	17	A. Yes, that's not true.
18	Q. Can we turn to page 4, please, of the report. We see at	18	Q. And then we see that it records that:
19	the bottom there that the committee had an aim of	19	"Two members argued that the dissonance between the
20	achieving consensus, didn't it?	20	committee's views and their own was so great that
21	A. That was the remit laid upon it by Michael Meacher.	21	attempting to express all views within a unified
22	Q. In the next sentence it says:	22	narrative would misrepresent their views."
23	"Where consensus was not possible the committee	23	Again, to be clear, those two members were you and
24	aimed to describe the disagreement, the reasons for it	24	Dr Busby?
25	and to identify research to clarify and possibly resolve	25	A. Too right.
	Dago 122		Dago 124
	Page 122		Page 124

1	Q. And cutting through it we can see that there was	1	A. I would doubt it. I'm not aware of it being published
2	an attempt to agree that a dissenting statement could be	2	anywhere.
3	issued, but we see halfway down paragraph 18:	3	MR JUSTICE BLAKE: No, I've looked at the front. It's just
4	"Members were concerned that they contained	4	that you are free from libel if it is by the House of
5	factually incorrect statements and assertions of	5	Commons. I happen to know having once drafted a report
6	a personal nature about the parties."	6	and
7	Therefore it's right, isn't it, that the committee	7	MR HEPPINSTALL: It wouldn't have Article 9 bill of rights
8	decided not to issue a dissenting view?	8	protection on it.
9	A. It's right to say that they decided not to issue the	9	A. I'm sorry, the substance of that part passed me by
10	dissenting review but everything preceding that is very,	10	altogether.
11	very questionable. The drafting of this report did not	11	MR JUSTICE BLAKE: Don't worry. Basically I think if it's
12	include any input from me and Busby, although we did	12	not published by Parliament these reports are not
13	submit voluminous amendments, for the reasons that I've	13	covered by absolute privilege and so defamation is
14	already referred to where it's just not enough	14	a potential threat for anyone writing these reports.
15	scientific literature to say, well (a) found nothing and	15	A. I'm grateful for that clarification, my Lord, but the
16	we found something without drilling into the reasons and	16	point is that noises had been made previously to
17	the dissonances of the incomparability in many cases of	17	potentially libellous statements and we had asked "What
18	the two types of report that were being adduced in	18	exactly is it you are objecting to?" and we never had
19	evidence.	19	a reply. At the last meeting all this came up again
20	When somebody is producing a narrative which does	20	because these legal opinions were specifying libellous
21	not capture the nuances of the scientific complexity of	21	or potentially libellous statements and negligent
22	the arguments it's very difficult to supply amendments	22	statements of fact. I asked again what was meant, was
23	which correct that failure, and eventually it became	23	there anything that we could change or remove that would
24	impossible to do, to get the two our report, or what	24	satisfy the committee? And there was no reply. The
25	you might call our strand of the report and the	25	chairman said, "Well, let's move on." I can remember
	Page 125		Page 127
	0		<u> </u>
1	secretariat's strand of the report, it was impossible to	1	this quite clearly. I said to him, "No Dudley, let's
1 2	secretariat's strand of the report, it was impossible to get them to map to each other.	1 2	this quite clearly. I said to him, "No Dudley, let's not move on because we've been here so many times and
		1	
2	get them to map to each other.	2	not move on because we've been here so many times and
2	get them to map to each other. So we began to produce material which we'd thought	2 3	not move on because we've been here so many times and you've never given us anything in detail. Please can
2 3 4	get them to map to each other. So we began to produce material which we'd thought would fit somehow into the final report, and two	2 3 4	not move on because we've been here so many times and you've never given us anything in detail. Please can you tell me what you are objecting to?" He attempted
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1	recommendations, and we remind ourselves of that last	1	MR JUSTICE BLAKE: Well, adding to my reading list is
2	sentence:	2	probably not what I set out to do but if I needed to
3	"The majority of members were not persuaded of the	3	would I find COMARE in the material? Perhaps you can
4	scientific merit or validity of the ECRR approach on	4	think about that and just let me know.
5	this matter."	5	MR HEPPINSTALL: We can let you know what we have.
6	So, for example, it would be unsurprising, wouldn't	6	MR JUSTICE BLAKE: And you can give me the references.
7	it, that the majority of the committee would not wish to	7	MR HEPPINSTALL: You will see that what happened was that
8	give any credence to ECRR in their report because they	8	green audit and Dr Busby would produce a report about
9	didn't think it had any scientific merit or validity, so	9	Bradwell or the Welsh coast and COMARE would respond and
10	consistent with that duty not to be party to the	10	it's those responses that are referred to.
11	publication of incorrect statements you can understand	11	MR JUSTICE BLAKE: They seem to get picked up in this
12	why they wouldn't want a report that gave any credence	12	report, so to make sense of the report one might need
13	to ECRR, would they?	13	to depending on one's enthusiasm for the topic.
14	A. If they had considered it, but as we discussed before	14	I don't want to introduce more material in if it's
15	lunch I am not aware that it ever came onto the agenda.	15	controversial but it's there in the bundle.
16	I'm pretty sure — I don't see how it could have.	16	Right, where are we going now?
17	I mean, it is such — such heavy duty brain cell	17	MR HEPPINSTALL: SB10, tab 162.
18	shifting stuff to get your head around exactly how these	18	MR JUSTICE BLAKE: Yes.
19	weighting factors were. I would have remembered such	19	MR HEPPINSTALL: Now, I think this is a partial set of
20	a discussion; there wasn't any.	20	extracts from what is entitled the CERRIE minority
21	Q. Can we	21	report. Is that right, Mr Bramhall?
22	A. In fact the IRSM which has reviewed the ECRR	22	A. I don't know if it's partial but I've got the full monty
23	recommendations has given a considerable amount of	23	here.
24	support to that approach. So you would have a job to	24	Q. I have the full one too somewhere but we have what we
25	persuade any court that there was misstatement of fact.	25	need in here, so that is fine.
23	persuade any court that there was misstatement or fact.		nova in nove, so that is inte
	Page 129		Page 131
1	Q. You agree that in the end the committee refused to	1	A. Which would be easier for me to use, this or
2	authorise the issuing of a minority report or	2	Q. It doesn't matter, the page numbers will be the same.
3	a dissenting statement?	3	The first question, Mr Bramhall, is that this title,
4	A. Yes, and I can even tell you who voted and how.	4	"Minority report of the UK's Department of Health,
5	Q. Can you now turn to bundle SB10. I think it's the other	5	Department of Environment committee examining radiation
6	one out there.	6	risks or internal emitters" is inaccurate, isn't it,
7	A. Are we finished with this?	7	
8	Q. You can put that one away.		because as we've just seen the committee did not release
		8	because as we've just seen the committee did not release
9		8 9	or authorise a minority report, did it?
9 10	MR JUSTICE BLAKE: Just before we do that, clearly this is	9	or authorise a minority report, did it? A. But it is a minority report.
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33 (Pages 129 to 132)

title we have? That's the point you are being asked to comment on. A. That is literally true. MR JUSTICE BLAKE: Yes, right. MR HEPPINSTALL: Do you think you should have told the audience reading this report what the position was by properly describing it? A. It didn't occur to me. You are saying, do I, with hindsight. I — no, I don't think anybody is materially going to be misled by this form of words, or would have taken any different impression if we had made it reflect what you are wanting it to say. MR JUSTICE BLAKE: Let just get this straight. Do you agree that there is a difference between a minority report of the committee of the Department of Health or Environment and a report by members of a committee that were in the minority? You agree there's a difference. A. There is a difference, my Lord. MR JUSTICE BLAKE: Yes, right. A. There is a difference, my Lord. MR JUSTICE BLAKE: Yes, right. A. There is a difference were a minority report of the committee. It's said it's the minority of the UK Department of Health, Department of environment, DEFRA, et cetera, yes? DEFRA, et cetera, yes? The doubt was self-published? A. It don't think anyone would have that clear in the report that it was self-published? A. It don't think anyone would have materially been misled by its omission, so — Q. Was that press just set up for the purposes of publishing this report? A. No. Q. Mr Bramhall, we can leave the minority report. I am going to ask you some questions about one final document. There's a loose document, which we can also hand up to the Tribunal and to the parties, although for everybody's reference this is taken from B8/38. These are one of the things we've reproduced to save you reaching for the bundle (Handed). Hopefully you'll find it loose on your desk. A. Yes, this thing from Wakeford. Q. Yes. MR JUSTICE BLAKE: Yes, Is there a good place for us to slot this in? MR HEPPINSTALL: I was wondering if I could put it in cross-examination material and maybe we should make you a new bundle. MR
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D 405
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1 A. What exactly is the question, my Lord? 1 it a more general
2 MR JUSTICE BLAKE: Well, is that an inaccurate statement? 2 MR HEPPINSTALL: It would be just this witness. As long as
3 A. Not materially. 3 we all remember where we put it.
4 MR JUSTICE BLAKE: Inaccurate but not materially, yes? 4 MR JUSTICE BLAKE: That's the point. If we agree the ground
5 A. Yes. 5 rules when we start so we all know where to find it.
6 MR JUSTICE BLAKE: Right. 6 MR HEPPINSTALL: Dr Raynor is indicating that she would like
7 MR HEPPINSTALL: Can you just turn forward say four pages. 7 a new file. No. If we put this behind the witness'
8 They are not numbered, unfortunately, but we get to 8 statement at 2.13 in SB1. So if we put it behind there.
9 a page entitled "Copyright". Now, at the bottom of that 9 MR JUSTICE BLAKE: Yes, it would be helpful, can I say at
1
14 Then we have an address which is also your address 14 team's foresight so others can follow your example.
15 at the top of the witness statement. 15 MR HEPPINSTALL: I am obviously far too sensitive.
16 A. That is true. 16 MR JUSTICE BLAKE: I appreciate there may be some sensitive
17 Q. Was the administrator you? 17 issues but this is helpful because otherwise when you
18 A. Yes. 18 have this material things can get lost so we need to
19 Q. Is it right to describe this report as self-published? 19 know where to put it.
20 A. I wouldn't disagree with such an assertion. 20 MR HEPPINSTALL: I've marked mine B8/38, just so you know
20 A. I wouldn't disagree with such an assertion. 21 Q. The Sosiumi press, if that's the right pronunciation? 20 MR HEPPINSTALL: I've marked mine B8/38, just so you know its origin.
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34 (Pages 133 to 136)

1	journal; is that right?	1	scientific advisory committee which is actually what
2	A. Well, it's certainly authored by Richard Wakeford in his	2	he wanted I might add in parentheses. He set it up as
3	distinctive rebarbative style. I don't know what his	3	a scientific advisory committee and the first thing the
4	current status vis a vis the JRP is.	4	secretariat did was to downgrade it to a consultative
5	Q. He has authored it editorially. He was editor at the	5	exercise and it took Meacher it took him so much time
6	time, do you accept that?	6	that three meetings elapsed before we were finally
7	A. Yes, but you also asked me about at that time. I don't	7	recognised and announced ourselves as a committee, as
8	know quite what the implication is. Excuse me, I am	8	the committee on radiation risk of internal emitters
9	being nit-picky.	9	rather than a consultative exercise. Sorry for that
10	Q. Not at all.	10	long digression.
11	MR JUSTICE BLAKE: Do we have the date of this? No, we have	11	This assertion of Wakeford that we planned to be
12	the date it was downloaded.	12	forced into writing a minority report is absolutely
13	MR HEPPINSTALL: Frontispiece is 2004, Journal of	13	ridiculous. Absolutely ridiculous. We wanted the kudos
14	Radiological Protection 24/337. He has entitled it	14	of being in the majority report.
15	"Reflections on CERRIE" and we know he was a member of	15	Q. Even if the majority report described things like the
16	CERRIE, don't we?	16	ECRR as lacking scientific merit and validity?
17	A. Yes.	17	A. If we had been in the majority report our column could
18	Q. What I would like to ask you some questions about, and	18	have given the other side of that view and we could have
19	you may want to read the paragraph, if you turn to	19	quoted and cited the IRSN report which says that the
20	page 339 there's a paragraph that starts "It became	20	concerns of the ECRR are entirely justifiable.
21	clear to me" and ends "All this, however, has very	21	Q. It's true we've looked at examples of where the
22	little to do with the review of the scientific	22	committee fairly sets out your views, the evidence that
23	evidence". Perhaps you would like to refresh your	23	you put forward for it, analyses it, even pays for
24	memory by reading that paragraph to yourself.	24	reviews and separate annexes, but then concludes that it
25	(Pause)	25	can't be put forward as scientifically valid?
	Page 137		Page 139
1	A. I have read it	1	A I take issue with your use of the word "fairly" The
1 2	A. I have read it. O. Have you finished?	1 2	A. I take issue with your use of the word "fairly". The
2	Q. Have you finished?	2	majority report very slightly treats the scientific
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35 (Pages 137 to 140)

1	people who reviewed the theories and concluded that they	1	Q. Not just that. It is putting into the public domain
2	were not scientifically valid?	2	theories that the majority of the committee found were
3	A. Manifestly not.	3	not scientifically valid, were riddled with
4	Q. Well, why not, Mr Bramhall? They reviewed them, they	4	epidemiological error, were things that would be
5	analysed them, they found to be to be without scientific	5	misleading and inaccurate if they were given any
6	validity. Do you say "manifestly not" because you just	6	credence in the majority report?
7	wanted it to be the other way around?	7	A. Exactly the same criticisms can be levelled at the
8	A. It was manifestly not achieved. I would say the most	8	majority report.
9	that we could have hoped to have achieved in that whole	9	MR HEPPINSTALL: I have no further questions, my Lord.
10	process was that we would get the two columns that I've	10	MR JUSTICE BLAKE: Thank you. Yes?
11	outlined, get the some thought this and some thought	11	Re-examination by DR BUSBY
12	that into one column, with the minority side I am	12	DR BUSBY: If I may I'd like to start at the end and work
13	saying according to a minority site because that's what	13	backwards
14	it turned out to be, but with the two dissenting sides	14	MR JUSTICE BLAKE: Can I just ask, before we get underway
15	explaining their scientific reasons clearly, which does	15	with this, roughly how long do you think you will be
16	not happen in the majority report. It would have been	16	with this witness?
17	an agreed report. We were aiming that from the	17	DR BUSBY: 15 minutes.
18	beginning, that it would be agreed. But the nature of	18	MR JUSTICE BLAKE: If we stick to that then we won't be
19	the control of the reporting process and the	19	injuring the health of others.
20	minute-taking process was so great and so tendentious	20	DR BUSBY: It may be less it depends on the elaboration of
21	that it became unachievable.	21	Mr Bramhall's answers.
22	Q. Isn't the truth that you published the minority report	22	Just now Mr Heppinstall has been raising this issue
23	because you could not accept the scientific criticisms	23	of the exclusion of the minority report and can I ask
24	made of Dr Busby's theories by the majority of the	24	you I hope I'm allowed to ask you how you think
25	committee?	25	issues can be raised that oppose the mainstream if
		20	issues can be raised that oppose the manistration
	Page 141		Page 143
1	A. If there had been scientific criticisms and if they were	1	a committee comprising the current model has a veto on
2	properly scientific and explained the reasons for the	2	
_	property scientific and explained the reasons for the		
3			the inclusion of evidence, if that makes sense to you? A. It makes sense but I think the answer is implicit in the
3 4	dissonance then I could have accepted that. Honestly	3	A. It makes sense but I think the answer is implicit in the
4	dissonance then I could have accepted that. Honestly I have been doing this role, this unpaid job for	3 4	A. It makes sense but I think the answer is implicit in the question. You have to do what we did.
4 5	dissonance then I could have accepted that. Honestly I have been doing this role, this unpaid job for a quarter of a century and I really would rather be	3 4 5	A. It makes sense but I think the answer is implicit in the question. You have to do what we did.Q. I think that's my point. I was just asking you if you
4	dissonance then I could have accepted that. Honestly I have been doing this role, this unpaid job for a quarter of a century and I really would rather be doing something else. If somebody could persuade me	3 4 5 6	A. It makes sense but I think the answer is implicit in the question. You have to do what we did.Q. I think that's my point. I was just asking you if you might agree with that.
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36 (Pages 141 to 144)

		1	
1	a proponent of the nuclear industry and published in	1	"minority report". He only wanted one report.
2	a journal which routinely publishes papers favourable to	2	Q. Sorry. What I meant by saying that was to ask you if he
3	the nuclear industry.	3	meant that both sides of the issue, or if there were
4	Q. We've heard from you earlier about how you said that the	4	some oppositional evidence or some evidence which showed
5	IRSN report, which was written following ECRR 2003, you	5	that the ICRP system might be incorrect, he wanted that
6	said that it entirely justified the concerns that ECRR	6	in that the report that was produced by CERRIE.
7	raised over the problems associated with the ICRP risk	7	A. Yes, he certainly, did and it's in the preface of both
8	model with regard to internal radionuclides. I just	8	the majority and the minority reports.
9	wondered if you could say who the IRSN is and why	9	Q. Right.
10	anybody should listen to what they say?	10	Now, on another matter here can I take you to
11	A. Because they are the French equivalent of the National	11	and this goes to the ICRP model again can I take you
12	Radiological Protection Board.	12	to page 13 of the CERRIE report, part 2, section 21,
13	MR JUSTICE BLAKE: Do we have that report in the materials?	13	introduction, paragraph 11.
14	DR BUSBY: I'm not sure. I think we may have it in the	14	MR JUSTICE BLAKE: Yes, the CERRIE main report.
15	Upper Tier. I think it was produced in the Upper Tier.	15	DR BUSBY: The CERRIE main report. Yes.
16	MR JUSTICE BLAKE: The same question as to Mr Heppinstall,	16	MR JUSTICE BLAKE: Yes. Do you have that?
17	if you can if it's somewhere in there, if you can	17	A. Yes, sir.
18	cross-refer, then if we need to look it up we know where	18	MR JUSTICE BLAKE: Yes.
19		19	DR BUSBY: Okay. If I might just read to you the sentence
20	to go. DR BUSBY: If we can't, can we dig it out and provide it?	20	at the bottom of paragraph 11. It says this, it says:
21	MR JUSTICE BLAKE: If you two agree it. I am loath I am	21	"There are" it starts off by talking about the
22		22	ICRP has not published information on uncertainties in
	loath to add to the materials, but if these are	23	_
23	important issues	23	dose co-efficients. At the bottom of this paragraph it
24	DR BUSBY: This thing appeared	25	says the following:
25	MR JUSTICE BLAKE: Yes, yes, but that's cross-examination.	25	"There are important concerns with respect to the
	Page 145		Page 147
1	DD DICDV. Vec small them was now I and Vec Dight	1	hatana ann situ of door delivery within tiens on and calle
1	DR BUSBY: Yes, well, thank you, my Lord. Yes. Right.	1	heterogeneity of dose delivery within tissues and cells
2	MR JUSTICE BLAKE: Anyway, French equivalent of the	2	from short range charged particle emissions. The extent
3	National	3	to which current models adequately represent such
4	DR BUSBY: Yes, it's the French equivalent of the National	4	interactions with biological targets and the
5	Radiological Protection Board and it did write quite	5	specification of target cells at risk."
6	a long piece	6	(quote unchecked)
7	MR JUSTICE BLAKE: I think I have seen reference to it.	7	It goes on:
8	What's the question?	8	"Indeed, the actual concepts of absorbed dose become
9	DR BUSBY: Yes. Mr Heppinstall has explored this question	9	questionable and sometimes meaningless when considering
10	of whether the committee should have given credence,	10	interactions at the cellular and molecular level."
11	I think, as he said, you know, to arguments which were	11	Now, you don't need to be a scientist to understand
12	manifestly wrong. But my question to you is this, is	12	what's being said there, when it's basically, you know,
13	that you did say earlier I thought I heard you say or	13	the essential point here is that "actual concepts of
14	you've written in your report that Mr Meacher wanted	14	absorbed dose become questionable and sometimes
15	both sides of the argument to be considered. Now, this	15	meaningless when considering interactions at the
16	is not a question of whether or not the evidence was	16	cellular and molecular level"
17	wrong or right, if he just wanted the two sides is it	17	MR JUSTICE BLAKE: We have the preface to the question.
18	true that so, whatever the evidence was, and whether	18	Time for the question?
19	it was considered to be wrong or worthless or whatever,	19	DR BUSBY: The question is do you agree that that was
20	it should be there in a minority report or in some sort	20	a reasonable exposition of the results of the CERRIE
21	of alternative statement so that research so that it	21	deliberations? Is it really what was agreed?
22	could provide some sort of direction for research which	22	A. Well, the minutes, I don't think I've ever seen them
23 24	could resolve the issue. Is that true, would you say?	23	show such a statement. So it was when I saw this
	A. He wanted it all in a consensual report. I think you	24	report and found that sentence in there I was a little
	may have clinned your tangue was referred to c	25	hit supprised Dut for mo it's land of the most
25	may have slipped your tongue, you referred to a	25	bit surprised. But for me it's kind of the most
	may have slipped your tongue, you referred to a Page 146	25	bit surprised. But for me it's kind of the most Page 148

1	important thing in the whole majority report. It does	1	was certainly not clear to me whether or not the
2	express significant in quite an approachable way	2	Bradwell study, the final figures in the Bradwell study,
3	significant parts of what the evidence that we did	3	as far as it went, showed that there was the errors
4	discuss shows, that there are types of exposure,	4	that had been made by the small area health statistics
5	particularly from uranium and strontium-90, which tend	5	unit and the separate errors that had been made by you
6	to become bound to DNA and to undergo radioactive decay	6	and me, when those had all been ironed out by COMARE and
7	right there on the DNA doing immense damage within	7	by re-analysis, I think you said that it did show that
8	a very, very short distance, but leaving the rest of the	8	there was a twofold a significant excess of breast
9	cell, even, untouched, let alone the whole of the rest	9	cancer in the wards that were contaminated by Bradwell.
10	of the body untouched.	10	Can we just get that right?
11	The question the concept of absorbed dose, which	11	A. Yes, it's up to twofold in the most contaminated part of
12	is an average of the energy released by that radioactive	12	the estuary and between between parity and twofold
13	decay into the whole body, is completely nonsense. You	13	for the rest of the ward
14	put a nuclear bomb on the DNA	14	Q. So that resolves I hope that resolves the issue of
15	MR JUSTICE BLAKE: You are being asked to comment upon	15	whether the Bradwell study did or didn't show, although
16	a piece of scientific evidence in the report and I think	16	if in fact, as you say, and am I right there to say that
17	you say you agree with it.	17	it wasn't concluded because the chairman cancelled it at
18	A. Yes.	18	some point?
19	MR JUSTICE BLAKE: I'm afraid we're not going to be able to	19	MR JUSTICE BLAKE: Sorry, where are we going?
20	hear from you on scientific matters itself given your	20	DR BUSBY: The Bradwell study, my Lord.
21	status as a scientist. Yes?	21	MR JUSTICE BLAKE: I have that. We have some details of
22	A. Well	22	that at tab 60/100, and I haven't read the minority
23	MR JUSTICE BLAKE: I am going to ensure that that is the	23	report, but I don't know whether that is contained
24	case.	24	there.
25	A. Can I?	25	He can comment upon what is in the report, but what
23	A. Call 1:	23	The can comment upon what is in the report, but what
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1	MR JUSTICE BLAKE: For everybody else throughout these	1	are you asking him about?
2	proceedings, and you, so please back off what is outside	2	DR BUSBY: I am asking him to elaborate or at least not
3	your expertise.	3	to elaborate but just confirm his response to
4	A. But I would submit, my Lord, that, having gone through	4	Mr Heppinstall. That's all. His response to
5	the whole CERRIE process, I did learn a fair amount.	5	Mr Heppinstall that, when he was talking to
6	MR JUSTICE BLAKE: I am sure you have a lot of background	6	Mr Heppinstall about the result of the Bradwell study,
7	facts, that does not make you an expert, and therefore	7	he did say that it showed there was a doubling in risk
8	I am not going to be able to receive expert we are	8	when all of the two organisations
9	going to hear others, I believe, who have the relevant	9	MR JUSTICE BLAKE: Which study are you referring to?
10	qualifications to assist us.	10	Because it's the study that has to carry the burden of
11	A. Thank you.	11	that answer rather than this witness.
12	MR JUSTICE BLAKE: That's the object of the exercise.	12	DR BUSBY: Sorry, my Lord?
13	DR BUSBY: Thank you, my Lord.	13	MR JUSTICE BLAKE: I'll try again. Let's assume that's
14	MR JUSTICE BLAKE: Now, anything else?	14	right. It's the study which gives the answer rather
15	DR BUSBY: Oh, certainly there is.	15	than the witness's comment upon it. He's not
16	MR JUSTICE BLAKE: You have another ten minutes.	16	an epidemiologist.
17	DR BUSBY: Well, yes, I don't think I'll need that. But	17	DR BUSBY: No, my Lord, I am asking him to tell us what the
18	I just want to be absolutely certain about that point	18	study
19	because that is absolutely a key point that	19	MR JUSTICE BLAKE: Well, where is the study?
20	MR JUSTICE BLAKE: You have the answer "yes". "Do you agree	20	DR BUSBY: The study is I don't know. I mean, it's
21	that it's Reasonable?" "Yes." You have that.	21	wherever Mr Heppinstall found it when he was asking the
22	DR BUSBY: Now, there has been some talk about errors	22	question.
23	associated with the Bradwell study. I think at some	23	MR JUSTICE BLAKE: He was asking about the report, about the
24	point I got the impression, anyway, from the	24	contents of the majority report, not the Sosiumi report,
25	cross-examination and the answers that it was not it	25	which I think is being referred to. If you are going to
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1 put quotations from other reports, whether it's the	1 Sorry about this, you may get a question. I am just
2 French or the others, it's useful to know where they are	2 sort of umpiring.
3 so we can track them all down. Yes? Then it's	3 DR BUSBY: Am I allowed to say this? Mr Charlton has
4 an evidence-based examination rather than simply	4 suggested a form of words. Do you have a comment on the
5 a hearsay by a non-expert on a scientific issue. Do you	5 sort of group approach, that sort of groupthink approach
6 follow the point?	6 to this issue of radiation risk on the basis of your
7 DR BUSBY: I see, my Lord, yes okay. Well, I'll leave that	•
8 point then, in that case, because it's just going to	8 MR JUSTICE BLAKE: Right, you can ask that question. Do you
9 take time.	9 have a comment upon that?
10 MR JUSTICE BLAKE: Yes. We have his answer.	10 A. Yes, my Lord.
11 DR BUSBY: Yes, yes.	11 MR JUSTICE BLAKE: What is your comment?
12 Well, I think there's a limit to what I can say	12 A. The nuclear industry, like many industries, is kind of
given hang on, wait a minute, no, there's other stuff	13 required to consult stakeholders, and stakeholder
here, sorry. This was about the Bradwell report. Yes,	14 engagement always comes at a price. The price, in my
15 well, I have one other question and then I'll leave it,	15 case, has always been that they have to think about
and I think my colleague Mr Charlton wants to ask one	these radiation risk issues. They will listen for
17 question.	17 a certain length of time and they will use your
	g i i i i i i i i i i i i i i i i i i i
, , , ,	when it gets too near the bone they will, as the
	• /
21 DR BUSBY: My question is this. That, as a result of your 22 25 years in this area and your membership of the CERRI	11 / 11
23 committee and also your membership for 13 years of the	23 Parliament, in the STOA process which I mentioned in my
24 Government Safegrounds Committee that is essentially	24 statement.
25 discussing all the same issues, would you say that there	25 But sometimes you can force them to utter
25 discussing an the same issues, would you say that there	Dut sometimes you can force them to utter
Page 153	Page 155
1 is some kind of conspiracy or groupthink that might be	1 unacceptable truths such as the fact that, as it says in
2 considered to be a conspiracy in this area for the	2 the CERRIE majority report, that the uncertainties
authorities and the nuclear industry, or whoever it is	3 associated with internal radiation are up to ten fold.
4 who are involved in these committees, to cover up this	4 MR JUSTICE BLAKE: That is the paragraph you already had
5 evidence of the	5 your attention drawn to? Or are you referring to just
6 MR JUSTICE BLAKE: Well, that's a leading question.	6 another paragraph?
7 DR BUSBY: Can I ask him another question, my Lord?	7 A. I can find it for you fairly quickly. (Pause)
8 I will ask him to comment generally on his	8 MR JUSTICE BLAKE: The witness is about to give us an answer
9 experience regarding these issues in the 25 years that	9 and we are going to close this. Look, if you can't find
10 he has been involved in the CERRIE committee	10 it now
11 MR JUSTICE BLAKE: Isn't that what he's doing in his witnes	·
12 statement?	12 MR JUSTICE BLAKE: I'm quite prepared to have it given to me
13 DR BUSBY: Sorry?	by Mr Busby later on.
14 MR JUSTICE BLAKE: Isn't that what he was doing in his	14 A. It's page 10.
15 witness statement?	15 MR JUSTICE BLAKE: Page 10.
16 DR BUSBY: Can I not ask him to amplify his response there?	
17 Anyway, if I can't, I'll leave it at that. I'll leave	17 uncertainty"
18 it to your Lordship.	18 MR JUSTICE BLAKE: Just let me get there. Page 10, para19
19 MR JUSTICE BLAKE: The question that you were about to a	
and just about qualified as the most loaded question	20 A. That's right. Two-thirds of the way down the box:
21 that I've heard and you will probably get used to	21 "Although the committee did not attempt to quantify
22 it in re-examination you are not meant to be leading	22 uncertainties in dose co-efficients, it was noted that
your witness to the conclusions you want, you have to	23 ranges for equivalent doses to organs and tissues may
ask open questions which you might or might not get the	vary from factors of 2 to 3 above and below the central
answer you are looking for. That's the way it goes.	25 estimate for radionuclides for which good data were
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1	available, to well over a factor of 10 for other	1	rainout would have caused the health effects just as it
2	radionuclides. These uncertainties are additional to	2	did at Hiroshima and Nagasaki."
3	those applying to risk estimates."	3	A. Yes.
4	(quote unchecked)	4	Q. I am going to direct my questions, just so you
5	That is a three-fold, according to the same report.	5	understand, at that conclusion.
6	MR JUSTICE BLAKE: Okay.	6	A. Okay. I studied the effect of mushroom cloud falling
7	DR BUSBY: Thank you my Lord, that's all.	7	down, but expanding the path of a mushroom cloud, the
8	MR JUSTICE BLAKE: Thank you very much. That completes your	8	raindrop is rather small. So the raindrop falling down
9	evidence. We will now take a break, a ten-minute break.	9	both are component evaporate and become fine particles.
10	(3.30 pm)	10	Then this cannot be seen by survivor, so and the
11	(A short break)	11	United States Government or Government ignore these
12	(3.45 pm)	12	effects and do not to study. But I study this one. And
13	PROFESSOR SHOJI SAWADA (sworn)	13	the veterans look very similar for fallout of not rain
14	Examination-in-chief by DR BUSBY	14	by but evaporated fine radio-particles. That is very
15	MR JUSTICE BLAKE: Thank you. Now, would you prefer to give	15	important.
16	your evidence sitting down. Make yourself comfortable.	16	So I said here. I wrote here.
17	Right. Two things, please. We'll be keeping a note of	17	Q. Just to understand your answer and take it a little bit
18	what you tell us, so keep it slow but sufficiently loud	18	more slowly. You are saying, are you, that Mr Battersby
19	so we can hear. Thank you very much.	19	and Mr Smith were exposed to rain or evaporating
20	Mr Busby, you are on. You have the point, the	20	particles from the cloud?
21	reports will stand as the evidence-in-chief. Updating,	21	A. Yes. Central part of mushroom cloud, the raindrop and
22	if there has been developments since the statement was	22	the dust, then when they drop to not completely
23	written. Clarification or correction, if there are any	23	evaporated but many water component were detained, then
24	things which need to be amended.	24	that is famous black rain. But expanded part of
25	DR BUSBY: Thank you, my Lord.	25	mushroom cloud the raindrop is rather small. Then the
	Page 157		Page 159
1	Your Lordship has Professor Sawada's report?	1	water component evaporated before reaching as ground.
2	MR JUSTICE BLAKE: Yes. We have it at tab 2.6 of SB1.	2	That's a very similar effect for the nuclear test
3	DR BUSBY: Well, I won't make any questions at this point	3	mushroom cloud. So most of mushroom cloud in that case
4	and	4	is evaporated before falling ground.
5	MR JUSTICE BLAKE: What you should do is establish that it	5	So the fine particles are very important to
6	is his report, that it's accurate and that he doesn't	6	exposure. That is mainly by taking inhalation by and
7	want to make any amendments to it.	7	inside the body. Then the radioactive fine particles
8	DR BUSBY: Professor Sawada, the report which you have,	8	make entire exposure, but this is very important.
9	which is the one that is at the tab which has just been	9	Q. So do you have to inhale the particles, the rain, as it
10	referred to, this is your report, you wrote this report.	10	falls?
11	You stand by what you said in this report. That is what	11	A. (Nodded assent)
12	you believe. This is your evidence.	12	Q. You have to physically inhale it?
13	A. (Nodded assent)	13	A. That is important. But (inaudible) cannot measure by
14	Q. Is there anything that you want to add to it? Or is	14	physical method, and so I study the effect of human body
15	that no.	15	by (inaudible) to diseases after that.
16	MR JUSTICE BLAKE: Okay. Thank you very much.	16	MR JUSTICE BLAKE: Can I just pause you there. I would like
17	Cross-examination by MR HEPPINSTALL	17	to get an answer to the question that has just been put
18	MR HEPPINSTALL: Professor Sawada, could we just turn to	18	to you. I think the question was for this effect to
19	page 17 of your report, please.	19	occur do you have to inhale the rain-affected
20	A. 17.	20	particles the particles in the rain?
21	Q. 17. It's the conclusion paragraph, and the final	21	A. (Inaudible) it is qualified that the raindrop not so
22	sentence there, just above "witness statement" is:	22	important than the actual fine particles, because
23	"Therefore, in the case of test veterans, the	23	inhalation inside the body is raindrop do not
24	argument that their dose was low is not a valid argument	24	inhalation, but
25	because their internal contamination from fallout and	25	MR JUSTICE BLAKE: Yes, I think the question is are you
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	<u> </u>		<u> </u>

1	telling us that the way that the particle gets into the	1	those tests caused or to which test is this
2	human body is by inhaling?	2	phenomenon attached?
3	A. Yes.	3	A. Well, seeing this now, so I would consider tomorrow
4	MR JUSTICE BLAKE: That's what you are saying?	4	morning the (inaudible).
5	A. Yes.	5	Q. Sorry?
6	MR HEPPINSTALL: So presumably it's important that the	6	A. Tomorrow morning I review again. Because I read now,
7	relevant person in this case, Mr Battersby and Mr Smith,	7	just now, this part. Before I do not read(?) this one.
8	were underneath the cloud and either the rain or the	8	Q. Let ask me you the question in a different way.
9	evaporated particles fell from the cloud and they	9	MR JUSTICE BLAKE: Mr ter Haar?
10	they inhaled them?	10	MR TER HAAR: In fact the witness has made the point I was
11	A. These particle evaporated on the ground. So the	11	about to make. I was going to submit I stand because
12	particles move by	12	I have more expertise in litigation than perhaps
13	Q. Re-suspend.	13	Mr Busby
14	A. Yes.	14	MR JUSTICE BLAKE: You don't need to call expert evidence on
15	Q. Can I ask you to look at SB2, tab 214, page 230.	15	that particular topic
16	MR JUSTICE BLAKE: 214.	16	MR TER HAAR: but this is an unfair line of questioning.
17	MR HEPPINSTALL: Yes, Mr Hallard's first report. (Pause)	17	If one looks at the Professor's report he does not
18	So you've been asked to give evidence on behalf of	18	purport to say that this is the conclusion you should
19	two appellants, this one we are looking at now is	19	draw for this human being or that human being on
20	Mr B Smith. Presumably you are familiar with his case,	20	Christmas Island. The effect of this evidence is
21	his essential facts are summarised in that table on	21	general evidence as to whether the ICRP is correct or
22	page 230. Do you see that?	22	not.
23	A. Okay. Yes.	23	MR JUSTICE BLAKE: Well, that I understood to be the case,
24	Q. So if you look at paragraph 2, just at the bottom of the	24	but I have just the preface was something in para
25	table and you can also see the dates against time on	25	3.3. But we'll have to tease it out and see whether he
	Page 161		Page 163
1	Christmas Island he started work at	1	can add any comment on this. If we'll go back to the
2	A. In the case of discussion?	2	MR TER HAAR: The reason why I do raise a question is it
3	Q. Yes, discussion, that's right. At paragraph 2 it says:	3	seems, particularly with a witness whose language
4	"Mr Smith started work on the island on	4	first language is not English
5	30 October 1959, approximately one year after the final	5	MR JUSTICE BLAKE: Well, I appreciate that's another
6	test Grapple Z4 on 23 September 1958."	6	question.
7	Do you see that?	7	MR TER HAAR: to ask a loaded question on a false premise
8	A. (Nodded assent)	8	in my submission is unfair.
9	Q. Have you taken that into account, the fact that he	10	MR JUSTICE BLAKE: Well, I am not with you on all of that
10	didn't arrive on the island until approximately one year	10	but I can see the dangers.
11	after the final test?	11	I am not quite sure where we've got to.
12	A. So in this case I think that the raindrop also very	12	MR HEPPINSTALL: Well, what I am trying to understand, which is why I went first to that conclusion, is what is the
13	important, because raindrop contain the radioactive	14	inference or evidence one can draw from whatever
14	particle and the raindrop enter accumulated(?) to the	15	happened at Hiroshima and Nagasaki with the events with
15	earth. So these raindrop radioactive matter detained	16	which we are concerned.
16 17	over the ground. So the radioactive particle can affect Mr Smith.	17	Let me try the question another way. What is how
18	Q. Which one of the tests, Grapple tests, which had	18	do you know let's try it another way.
19	occurred on Christmas Island prior to Mr Smith's arrival	19	Do you know that there was evaporated particulate,
20	involved this phenomenon?	20	or let's call it rainout, if that's a term you
21	A. Pardon me?	21	understand, at the Christmas Island test with which this
22	Q. So there were a series of tests, as you know, Grapple X,	22	Tribunal is concerned?
23	Grapple Y, Grapple Z, 1, 2, 3 and 4 on Christmas Island.	23	A. I mainly study A-bomb survivors who had effects, so for
24	You are referring to this phenomenon of evaporated	24	veterans the similarity between A-bomb survivors of
25	particulate or particles coming down on rain. Which of	25	distant part (?) and (inaudible words) veterans very
	r same or particles coming down on run. Third of		£ (,
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41 (Pages 161 to 164)

1	similar distant part (?) for survivor.	1	last of the tests, at Christmas Island.
2	Q. Why do you think it's similar? Have you seen or been	2	Do you have any information that there was internal
3	told have you seen evidence or been told that this	3	contamination from fallout and rainout at Christmas
4	phenomenon occurred on Christmas Island?	4	Island, or have you simply being told that and you are
5	A. That main particles, the dust and fine particle	5	applying your work to those situations?
	•	6	I think that's is what you are being asked about.
6	absorption, is very similar. And, furthermore, the		
7	raindrop also detained in the ground, so these	7	Do you follow the question?
8	radioactive particles move to something by air, wind.	8	A. Yes.
9	And then then later enter the people. And that is	9	MR JUSTICE BLAKE: Moving it from your area of study, can
10	very similar to the atomic bomb survivors who enter	10	you tell us anything about the contamination at
11	after atomic bomb been dropping days. I study these	11	Christmas Island, is the question.
12	effect after enter into the city. That is very similar.	12	A. Yes. I found that the effect of radiation is dependent
13	Q. So you studied the black rain effect, if I can call it	13	on the person, on the person. And very sensitive people
14	that, post Hiroshima and Nagasaki.	14	do this and are materially(?) radiation affected. But
15	A. Yes.	15	where grade is half the radiation dose, and if higher
16	Q. Have you looked at any evidence or information about	16	grade is received then about half people died within six
17	that same effect occurring at the Christmas Island	17	days. But I receive about three days(?), I calculated,
18	tests?	18	but have no effect of radiation. Very sensitive people,
19	A. I study the effect of not initially at that time	19	have a point of higher grade then they get some
20	and later they enter to inside the city, they, many	20	diseases. So the effect of the radiation is very
21	of them affected by radioactive effects.	21	dependent on people.
22	Q. I am just trying to explain and understand this	22	So Mr Smith may be very sensitive and belonged to
23	statement that internal contamination from fallout	23	certain people.
24	and rainout will have caused the health effects just as	24	So the effect of radiation is dependent on people to
25	it did at Hiroshima and Nagasaki. You don't say what	25	people to consider this effect why the disease spread.
	Ç		
	Page 165		Page 167
1	evidence that you have seen that there was internal	1	MR HEPPINSTALL: I'm not sure I understood that.
1 2	evidence that you have seen that there was internal that you saw in order to make the statement that there	1 2	MR HEPPINSTALL: I'm not sure I understood that. MR JUSTICE BLAKE: I'm not sure I understood the answer.
	•		MR JUSTICE BLAKE: I'm not sure I understood the answer.
2	that you saw in order to make the statement that there	2	MR JUSTICE BLAKE: I'm not sure I understood the answer. A. I show my paper, the graph.
2 3	that you saw in order to make the statement that there was internal contamination from fallout and rainout at the Christmas Island tests.	2 3	MR JUSTICE BLAKE: I'm not sure I understood the answer. A. I show my paper, the graph. MR JUSTICE BLAKE: This is going to be a little tricky. Do
2 3 4	that you saw in order to make the statement that there was internal contamination from fallout and rainout at	2 3 4	MR JUSTICE BLAKE: I'm not sure I understood the answer. A. I show my paper, the graph. MR JUSTICE BLAKE: This is going to be a little tricky. Do you want to explore the earlier part of those
2 3 4 5 6	that you saw in order to make the statement that there was internal contamination from fallout and rainout at the Christmas Island tests. What information have you seen in order to make that statement?	2 3 4 5 6	MR JUSTICE BLAKE: I'm not sure I understood the answer. A. I show my paper, the graph. MR JUSTICE BLAKE: This is going to be a little tricky. Do you want to explore the earlier part of those conclusions which are based upon this witness's analysis
2 3 4 5 6 7	that you saw in order to make the statement that there was internal contamination from fallout and rainout at the Christmas Island tests. What information have you seen in order to make that statement? A. Medical doctor Oho(?) study the effect of (inaudible)	2 3 4 5 6 7	MR JUSTICE BLAKE: I'm not sure I understood the answer. A. I show my paper, the graph. MR JUSTICE BLAKE: This is going to be a little tricky. Do you want to explore the earlier part of those conclusions which are based upon this witness's analysis of the survivors in Hiroshima and Nagasaki.
2 3 4 5 6 7 8	that you saw in order to make the statement that there was internal contamination from fallout and rainout at the Christmas Island tests. What information have you seen in order to make that statement? A. Medical doctor Oho(?) study the effect of (inaudible) people enter in the Hiroshima city after bombing, and	2 3 4 5 6 7 8	MR JUSTICE BLAKE: I'm not sure I understood the answer. A. I show my paper, the graph. MR JUSTICE BLAKE: This is going to be a little tricky. Do you want to explore the earlier part of those conclusions which are based upon this witness's analysis of the survivors in Hiroshima and Nagasaki. MR HEPPINSTALL: Well, I don't propose to do that, no. The
2 3 4 5 6 7 8 9	that you saw in order to make the statement that there was internal contamination from fallout and rainout at the Christmas Island tests. What information have you seen in order to make that statement? A. Medical doctor Oho(?) study the effect of (inaudible) people enter in the Hiroshima city after bombing, and the Doctor Oho study the effect of these people after	2 3 4 5 6 7 8 9	MR JUSTICE BLAKE: I'm not sure I understood the answer. A. I show my paper, the graph. MR JUSTICE BLAKE: This is going to be a little tricky. Do you want to explore the earlier part of those conclusions which are based upon this witness's analysis of the survivors in Hiroshima and Nagasaki. MR HEPPINSTALL: Well, I don't propose to do that, no. The case is not about Hiroshima and Nagasaki. I'm calling
2 3 4 5 6 7 8 9	that you saw in order to make the statement that there was internal contamination from fallout and rainout at the Christmas Island tests. What information have you seen in order to make that statement? A. Medical doctor Oho(?) study the effect of (inaudible) people enter in the Hiroshima city after bombing, and the Doctor Oho study the effect of these people after this instance. So from this his data I could find	2 3 4 5 6 7 8 9	MR JUSTICE BLAKE: I'm not sure I understood the answer. A. I show my paper, the graph. MR JUSTICE BLAKE: This is going to be a little tricky. Do you want to explore the earlier part of those conclusions which are based upon this witness's analysis of the survivors in Hiroshima and Nagasaki. MR HEPPINSTALL: Well, I don't propose to do that, no. The case is not about Hiroshima and Nagasaki. I'm calling no evidence.
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1	into contact with ionising radiation, including	1	second half of my cross-examination, which is the bulk
2	ingestion, therefore suggests that the external dose	2	of it, will be on the ICRP model and the way it gathers
3	model is insufficient. I am simply trying to do the	3	its support from other sources. So I'm fully alive as
4	building blocks and I hope I am not doing violence to	4	to what the witness says. I was just starting in
5	it.	5	a slightly different position.
6	Therefore, since we have the benefit of his presence	6	MR JUSTICE BLAKE: Quite. But that position seems to have
7	all the way from Japan today, if anyone is going to ask	7	yielded singularly little fruit.
8	him about any other flaws in that model, I don't	8	MR HEPPINSTALL: It may be we put a red line through that
9	imagine well, Mr ter Haar, I don't think, is playing	9	paragraph in his report and concentrate on the rest on.
10	in this part	10	MR JUSTICE BLAKE: I question mark the red line, and nothing
11	MR TER HAAR: Well, actually, I am sorry to disappoint.	11	is decided until we come to the end of the process. If,
12	This evidence, particularly in light of the questions	12	Mr ter Haar, you were, as it were, to take over the
13	asked on behalf of the Secretary of State, plays very	13	process of supplementary examination from Dr Busby, how
14	directly into some of the evidence given by experts at	14	long do you think you would want to lead any further
15	the previous FTT, which we would otherwise be drawing	15	answers in evidence on the ICRP matter.
16	attention to by cross-examination of other witnesses.	16	MR TER HAAR: Allowing for the language problems, I will try
17	It may well be, seeing how things go, that I may ask for	17	to do it in half an hour.
18	permission to actually ask a few questions of this	18	MR JUSTICE BLAKE: Let us just run through that. If we
19	Professor	19	start at 10.30 and you manage in half an hour to adduce
20	MR JUSTICE BLAKE: In cross-examination or	20	some further evidence, and then that could set the scene
21	examination-in-chief?	21	possibly for what Mr Heppinstall wants to say.
22	MR TER HAAR: I think probably I will have to do it as	22	I appreciate we are going to have language problems and
23	carefully as possible, given that I have an interest,	23	we have to give a break for the shorthand writers. How
24	not to ask leading questions. But nevertheless I think	24	long do you think you might be?
25	that, on behalf of my appellants, there are areas which	25	MR HEPPINSTALL: I would hope by lunch I would easily be
	Page 169		Page 171
1	I would like to explore with this witness, having regard	1	done, if not before.
2	to what the Secretary of State are saying.	2	MR JUSTICE BLAKE: We'll break at 11.30 for ten minutes and
3	MR JUSTICE BLAKE: Do you want to explore with them before	3	then we'll complete the process. But then one of you
4	Mr Heppinstall cross-examines, therefore?	4	may want to re-examine.
5	MR TER HAAR: It might be better to do it that way because	5	MR TER HAAR: I don't think that probably wouldn't be
6	it might clear some of the ground in that way.	6	appropriate for me to do so, but let's cross that bridge
7	MR JUSTICE BLAKE: Well	7	as we get to it. I have a feeling a few questions, not
8	MR TER HAAR: I am happy to start that now or whenever	8	only to assist with this witness, but may also set the
9	MR JUSTICE BLAKE: Well, it's quarter past four, if that	9	scene for some of the other questions I am going to ask
10	clock is accurate. I can see I mean I was taking	10	during the case.
11	my cue from you, you thought this week was a passive	11	MR JUSTICE BLAKE: Yes. Well, I am prepared to give it
12	week and you were going to be doing other things.	12	a go.
13	MR TER HAAR: It has become apparent, as we dip our toe into	13	MR TER HAAR: Right.
14	this evidence, I think some questions from me, as	14	MR JUSTICE BLAKE: Professor Sawada, it's now 4.15. We are
15	non-leading as I can possibly make them, might help the	15	going to stop this session this evening. We will come
16	Tribunal to see where we are going.	16	back here tomorrow and we will start again at 10.30.
17	MR JUSTICE BLAKE: As you may have gathered from my attempt	17	This gentleman, Mr ter Haar, who represents other
18	to put the case, I recognise that there is something	18	appellants, is going to ask you a few questions. Do you
19	here that we are going to have to grapple with, but it's	19	need to speak to him overnight?
•		20	MR TER HAAR: I might make just make sure he understands the
20	quite difficult on what we have. I think it might be		÷ ,
20 21	quite difficult on what we have. I think it might be an idea, therefore, if we pull stumps for tonight. If	21	process, but not about the content.
	•	21 22	process, but not about the content. MR JUSTICE BLAKE: About the process. Unless Mr Heppinstall
21	an idea, therefore, if we pull stumps for tonight. If	1	* '
21 22	an idea, therefore, if we pull stumps for tonight. If we come back tomorrow at 10 o'clock or 10.30, and we	22	MR JUSTICE BLAKE: About the process. Unless Mr Heppinstall
21 22 23	an idea, therefore, if we pull stumps for tonight. If we come back tomorrow at 10 o'clock or 10.30, and we need to finish the programme is that we finish this	22 23	MR JUSTICE BLAKE: About the process. Unless Mr Heppinstall has any objection I'm content for Mr Ter Haar to do
21 22 23 24	an idea, therefore, if we pull stumps for tonight. If we come back tomorrow at 10 o'clock or 10.30, and we need to finish the programme is that we finish this witness by one o'clock tomorrow, isn't it? MR HEPPINSTALL: Yes, my Lord, and I can indicate that the	22 23 24	MR JUSTICE BLAKE: About the process. Unless Mr Heppinstall has any objection I'm content for Mr Ter Haar to do that. MR HEPPINSTALL: As am I, although prior warning of this
21 22 23 24	an idea, therefore, if we pull stumps for tonight. If we come back tomorrow at 10 o'clock or 10.30, and we need to finish the programme is that we finish this witness by one o'clock tomorrow, isn't it?	22 23 24	MR JUSTICE BLAKE: About the process. Unless Mr Heppinstall has any objection I'm content for Mr Ter Haar to do that.

1 turn of events, it would be appreciated if there are any 2 other BS appellants that are going to be examined in 3 chief by anyone other than 4 MR JUSTICE BLAKE: Now, I think my generosity may be limited 5 to this witness. If it's generosity or 6 Opening submissions by MR CHARLTON 6 Opening submissions by MR CHARLTON	
2 other BS appellants that are going to be examined in 3 chief by anyone other than 4 MR JUSTICE BLAKE: Now, I think my generosity may be limited 5 to this witness. If it's generosity or 2 3 Housekeeping 4 Provisional Ruling	
3 chief by anyone other than 4 MR JUSTICE BLAKE: Now, I think my generosity may be limited 5 to this witness. If it's generosity or 5 Opening submissions by MR CHARLTON 6 Opening submissions by MR CHARLTON	
4 MR JUSTICE BLAKE: Now, I think my generosity may be limited 5 to this witness. If it's generosity or 6 Opening submissions by MR CHARLTON 6 Opening submissions by MR CHARLTON	
5 to this witness. If it's generosity or 5 Opening submissions by DR BUSBY 6 Opening submissions by MR CHARLTON	
1 6 Opening submissions by MR CHARLTON	71
1 4 MD HEDDINGTALL, Long constability beautiful	79
6 MR HEPPINSTALL: I am grateful to hear it. 7 MR RICHARD BRAMHALL (sworn)	82
7 MR TER HAAR: I am happy to talk to Professor Sawada, with Examination-in-chief by DR BUSBY	83
8 obviously Dr Busby present, to make sure everybody 8	
9 understands what is happening. Cross-examined by MR HEPPINSTALL	
10 MR JUSTICE BLAKE: But you know what the sensitivities and 9 Re-examination by DR BUSBY	
the rules are, and we must rely upon your good judgment 10 PROFESSOR SHOJI SAWADA (sworn) 11 The rules are, and we must rely upon your good judgment	
12 about that. Examination-in-chief by DR BUSBY	
13 THE WITNESS: Excuse me. I misunderstand. My duty here. 11 Cross-examination by MR HEPPINSTAI 12	LL138
14 I want to explain.	
15 MR JUSTICE BLAKE: Well, what will happen, we are going to 14	
16 rise now. I think this gentleman will talk to you about 15	
17 procedures and he may ask you some further questions 16	
18 tomorrow. Then we will continue with the questions 17	
19 being put to you by the Secretary of State's advocate.	
20 Then, before one o'clock tomorrow, someone will be	
21 asking you or have the opportunity to ask you any	
22 other clarification questions. I think that probably is	
23 the more effective way of getting through this because 23	
24 it's obviously going to be quite difficult for you, but 24	
25 thank you for coming all the way you have to help us 25	
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1 with this difficult problem.	
2 THE WITNESS: I understand.	
4 10.30. There is nothing else I can do tonight, I don't	
5 think, to facilitate that process.	
6 MR TER HAAR: I don't think so.	
7 MR JUSTICE BLAKE: Right, thank you very much.	
8 (4.20 pm)	
9 (The court adjourned until	
10 Tuesday, 14 June 2016 at 10.30 am)	
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