

1 Wednesday, 15th September 2004

2 (10.30 am)

3 THE CHAIRMAN: I declare the meeting open. We now move on
4 to the final part, public health claims. As usual,
5 I give the floor to Iraq.

6 Presentation by REPUBLIC OF IRAQ

7 MR SCHNEIDER: Mr Chairman, distinguished members of the
8 Panel, the first issue which we propose to address in
9 this session concerns the basic legal issues, like
10 yesterday; the entitlement, the question of entitlement:
11 are public health claims, as they were made here by the
12 claimants, compensable? What is the legal basis for
13 a government to claim compensation in this respect?

14 Health issues have been addressed in the UNCC
15 process at several levels. First of all, and most
16 importantly, at the level of individuals.

17 The rules established for the UNCC provide for
18 compensation of claims by individuals for personal
19 injury, for mental pain and anguish. Individuals were
20 given the opportunity to claim for these injuries under
21 the individual categories B, C and D. Indeed, they have
22 done so, claiming for personal injury and death, mental
23 pain and anguish resulting from hostage-taking, illegal
24 detention and other similar traumatic events. These
25 individuals, where they had a justified claim, were

1 compensated.

2 Individuals also could claim for adverse health
3 impacts resulting from the collapse of Kuwait's public
4 health system during the conflict and could claim for
5 the pollution caused by the oil well fires.

6 This shows to what extent the UNCC went to provide
7 compensation for public health damage suffered by the
8 individuals exposed to the consequences of the conflict.

9 At the level of the governments, the rules are more
10 laconic. There is no mention of public health claims in
11 the Resolution 687, and in Decision No. 7. There is
12 only one passage, and that is in paragraph 35(d), where
13 mention is made of:

14 "The following damage is included as a basis for
15 compensation: reasonable monitoring of public health and
16 performing medical screening for the purpose of
17 investigation and combatting increased health risks as
18 a result of the environmental damage."

19 What does this mean? The only public health claims
20 for which compensation is provided are for reasonable
21 monitoring and more medical screening. These medical
22 screening costs are further limited twofold. They must
23 be made for the purposes of investigating and combatting
24 increased risk, and these risks -- that is the second
25 limitation -- must be the result of environmental

1 damage.

2 The claims under paragraph 35(d) are indeed
3 a category of environmental claims and only for
4 screening. This is in fact the understanding which this
5 Panel had in the report under the first instalment,
6 where the Panel relied on the provision of
7 paragraph 35(d) in paragraph 11 of the report for its
8 award on monitoring and assessment.

9 In the long list of government claims in Decision 7,
10 there is no other reference to public health damage. In
11 particular, there is no mention of costs providing
12 medical services. In other words, the decision provides
13 compensation for screening, not for treatment or any
14 other public health damage, as the claimants are
15 alleging it occurred and as they are making as the basis
16 for their claim.

17 In the Decision (sic) 35 there is an indication that
18 this list is not exhaustive. Indeed, it is said in
19 paragraph 31:

20 "The following criteria are not intended to resolve
21 every issue that may arise with respect to these claims.
22 Rather, they are intended to provide sufficient guidance
23 to enable the governments and international organisation
24 to prepare consolidated claims."

25 They are intended as guidance, which means not every

1 detail must be regulated in the rules, and not every
2 detail was intended to be regulated.

3 This Panel, in the second instalment, made some
4 interpretation, and in paragraph 23 of its report said:

5 "For example, expenses of measures undertaken to
6 prevent or abate harmful impact of airborne contaminants
7 and property or human health could be included."

8 What is noteworthy here is that the drafters did
9 consider public health. When the damages, the losses
10 for which the claimants can seek compensation, were
11 addressed, the drafters looked at public health, and
12 they provided compensation for certain public health
13 matters. But they have done so in a very limited
14 manner. Therefore, in this case here, the absence of
15 specific other cases of damage in the area of public
16 health cannot be a simple oversight or lacuna. This
17 absence of other public health damage is something that
18 must be intentional. The silence, the non-mention of
19 these other fields of damage, are what is called in
20 French doctrine a silence characterise, a characterised
21 silence, it is not accidental -- a concept which is
22 applied in interpretation of legal texts in general.

23 I think in English law it would be the ejusdem
24 generis rule. If you have specified as an example, you
25 mean similar cases of the same kind but not something

1 very different. So we conclude from the fact that
2 public health was mentioned, but only in a very limited
3 manner, that public health claims are limited to the
4 category of screening, monitoring and the like, as the
5 Panel applied it in the first instalment.

6 Indeed, this is a sensible solution in a context
7 where the individuals have been given an opportunity to
8 claim and have been compensated. The effects on health
9 which we are considering here are effects which meet
10 individuals, and they are affected in their health and
11 they could claim for including mental pain and anguish,
12 something that would correspond to the post traumatic
13 stress disorder for which the governments are claiming
14 here.

15 The governments are only concerned indirectly. They
16 are providing the medical services, but they do this
17 anyway. This is a basic service which a government does
18 provide in general and which it does whether there is
19 one patient more or one patient less, and there is no
20 basis for compensation.

21 One other basis that may be considered is
22 paragraph 36 of Decision No. 7, and there the case is
23 considered where a government provides indemnification
24 to an individual that can claim elsewhere under the UNCC
25 rules, and this type of claim has been described as the

1 subrogation claim. The government makes a payment to
2 a national for loss of property or other losses, for
3 which this national can seek compensation before the
4 UNCC.

5 This provision is of interest on two grounds for us.
6 On the one hand, it addresses the controversy that was
7 occurring yesterday about the role of diplomatic
8 protection in this procedure. In fact, in the UNCC the
9 normal case is the claim by an individual, and this is
10 an exception to international law where the individual
11 does not have access to the adjudicating authority.

12 This has as a counterpart that there is no provision
13 like in diplomatic protection of the government
14 espousing the claim. The only provision that is made,
15 which is sort of a corollary to diplomatic protection --
16 that is precisely this paragraph 36 -- that the
17 government can indemnify the individual and then claim
18 for the amount of this indemnification. This, of
19 course, is different from diplomatic protection and it
20 is in the UNCC this mechanism which replaces diplomatic
21 protection.

22 There is another important aspect in paragraph 36.
23 That is, it relates to the strict standard of
24 directness. The claims by a government, once it has
25 indemnified an injured person, would be indirect. The

1 government itself has not suffered the damage, it is the
2 individual that has suffered the damage. The very fact
3 that the drafters, the Governing Council, saw the need
4 for regulating this particular situation, the need of
5 providing for this case of indirect damage, shows how
6 strict is the question of directness, the principle of
7 directness, which is back in Resolution 687.

8 Throughout, it is always direct damage.

9 This case of indirect damage, where a government has
10 expenses because an individual, a patient, has been
11 affected, are indirect cases, and it is only these cases
12 in paragraph 36 of Decision 7 where a government has the
13 possibility of claiming for indirect damages. So we are
14 saying that only in cases which fall under paragraph 36
15 is a government entitled to make public health claims.
16 In other words, the loss must be of a citizen or another
17 third person which is compensable before the UNCC, and
18 only up to the amount for which the UNCC provides
19 compensation. And the government must have made such
20 a compensation.

21 In all other cases, the claims by the government for
22 a loss of its citizens are indirect losses and cannot be
23 claimed.

24 The conclusion on this point: a government cannot
25 make a claim on account of life or health of its

1 nationals. It can make it only if it is for monitoring
2 and screening under paragraph 35(d) or for subrogation
3 under paragraph 36. That is it.

4 This is the ambit of public health claims in the
5 system of the UNCC.

6 There is no basis for general public health claims,
7 as they are made by the claimants here. There might be
8 a possibility under paragraph 34, should the government
9 show that the health damage for which they claim is
10 caused by one of the identified events, and they must
11 then in each case demonstrate the identified events,
12 such as military action, action by public officials,
13 breakdown of civil disorder, et cetera, and the damage
14 must be direct. These are the limits for any additional
15 treatment costs for which a government may seek
16 compensation.

17 Since the health services are supported by the
18 government in any event, it is only the additional cost,
19 the marginal costs, which are compensable. We will
20 address this point in a minute.

21 These considerations lead also to the conclusion
22 that all these claims for loss of productivity, for loss
23 of wellbeing of individuals, are inadmissible. They are
24 claims for indirect loss. If there is any loss at
25 all -- and we come to the question of what loss is there

1 in a minute -- these claims also fail because of the use
2 of modelling and other risk assessment methodologies for
3 establishing the alleged damage.

4 First of all, we will come to the point, we will
5 have comments to the health impact in the first place,
6 and we will have here Dr Philippe Autier, who is the
7 head of the epidemiology department of the Jules Bordet
8 Institute and the oncology centre in Brussels, and who
9 is an international consultant on public health issues,
10 who will address this point.

11 Presentation by DR AUTIER

12 DR AUTIER: The public health claim on oil well fires and
13 mortality came to the conclusion that there were 35
14 additional deaths of Kuwaiti nationals because of the
15 oil well fires. These 35 deaths represent 2.6 per cent
16 of deaths in that populations.

17 The calculation of these 35 extra deaths was done
18 from complex modelling work, and the complex modelling
19 work involves a certain number of steps, and each step
20 may involve uncertainties. These steps, very
21 summarised, are about the air concentration of
22 pollutants in Kuwait; the background non-accidental
23 mortality; the numbers of people who were actually
24 exposed to the pollutants; and, of course, what is the
25 link that exists between the exposure to the pollution

1 and dying from that pollution?

2 The pollutant that attracts most attention is called
3 the particulate matter, which was used for complex
4 modelling. We will address some of the key
5 uncertainties on the estimation of oil well fires and
6 mortality in Kuwait.

7 First of all, different dispersion models have been
8 used by the claimants for the estimation of the air
9 concentration of pollutants. This means that, according
10 to the model you use, you may come up with different
11 estimations of the air concentration of the pollutants.

12 Here in this model on the slides we show, the first
13 thing to be seen is these orange lines. That represents
14 the air concentration in particulate matter in Kuwait.
15 This is the ambient particulate matter in Kuwait during
16 usual daily life. These very high levels are due
17 essentially to sandstorms, that are very common in that
18 area of the world.

19 The blue lines on the slide come from the model and
20 represent the pollution of particulate matters coming
21 from the oil fires. These peaks of pollution are
22 interrupted by periods of normal situation. The blue
23 line is in fact the average of all the oil fire
24 emissions. The blue line has been used for modelling
25 mortality.

1 So here we come up with the first question: is the
2 average concentration of particulate matter a good
3 approximation of a phenomenon that expresses as peaks
4 during a very precise moment?

5 The second problem we see is that this average
6 particulate matter has been used for estimating the
7 excess mortality, and for that the data were used from
8 epidemiological studies done in the United States. The
9 green line shows the ambient average particulate matter
10 level in the United States cities. It is a little bit
11 above the zero level in this graph.

12 The orange line represents the average ambient
13 particulate matter in Kuwait. This underlies the
14 difference in atmospheric conditions between
15 United States cities and Kuwait.

16 This poses the question: can we use the research
17 from epidemiological studies done in the United States
18 for establishing and estimating mortalities due to
19 particulate matter in Kuwait?

20 This picture shows another aspect of the
21 estimations. For the estimation of the excess
22 mortality, the claimant used the absolute increase in
23 particulate matter. But the increased particulate
24 matter in Kuwait, if it was applied in the United States
25 cities, it would represent an increase of 70 per cent of

1 the air concentration of particulate matter. However,
2 when we apply this to the Kuwait situation, this
3 represents only 6 per cent relative increase in
4 particulate matter. So the increase due to oil fires in
5 Kuwait represents a very small increase as compared to
6 the background particulate matter.

7 We can also come to another consideration here: that
8 if the absolute increase in particulate matter was the
9 important matter, you would expect that in Kuwait, given
10 that very high background particulate matter, the
11 concentration in Kuwait would be very high. But that is
12 not the case; people enjoy low mortality and a high life
13 expectancy.

14 What was the exposure of people in Kuwait to the
15 pollutants in 1991? We must be reminded that the smoke
16 was blown high into the air most of the time and reached
17 the ground only on occasional touchdowns. When there
18 were touchdowns, most people generally stayed in the
19 buildings, so probably that exposure was minimised.

20 That there were few touchdowns is very significant.
21 We found no information in the report from Kuwait
22 showing that there were remediation plans for reducing
23 the exposure of people to plumes, limiting the exposure,
24 so the threat was not that enormous.

25 We can say that in fact the epidemiological results

1 for making estimates of an excess risk were derived from
2 US cities, and we can question whether this is
3 applicable at all to Kuwait. The authors themselves
4 acknowledge that there is a considerable uncertainty
5 that may lead to estimates of excess death, ranging from
6 zero to perhaps several hundreds. This shows, also,
7 that the authors were not very certain of the results.

8 One could say that in fact the particulate matters
9 from oil plumes are of a different quality than those
10 from sandstorms, meaning by that that these particulate
11 matters could have consequences to public health that
12 would not have the particulate matters from sandstorms.

13 In fact, when we review all the evidence we have so
14 far coming from studies published (inaudible) from
15 Kuwait itself, from the firefighters and from the United
16 States soldiers, we found no evidence that the
17 particulate matters from oil fires had a detrimental
18 impact on health.

19 Looking at the robustness of the models that were
20 used and the results of them, the claimant asked a panel
21 of six European experts to review the results. In fact,
22 the results from the six European experts showed
23 considerable variation in the number of deaths that
24 could be expected from exposure to the oil fires,
25 ranging from zero to several thousand. So this shows,

1 quite interestingly, that differences in assumptions,
2 modelling and uncertainties may contribute to a very
3 different conclusion, including no excess deaths at all.

4 Thank you.

5 MR SCHNEIDER: We now move on to another component of the
6 damages for which several of the claimants seek
7 compensation -- psychological damage. Several of the
8 claimants seek compensation for what they describe as
9 PTSD, post traumatic stress disorder. As
10 Professor Guyader will explain to us, this is a new
11 disease, and amongst scientists it is debated whether it
12 is a disease at all.

13 From a legal point of view, the link of these PTSD
14 phenomena on which some of the claimants rely must be
15 made to what is in our legal terminology, in our legal
16 concepts, the mental pain and anguish. We see that the
17 PTSD and mental pain and anguish relate to the same
18 phenomenon. This has the consequences that the claims
19 which are now being made for PTSD, in reality are claims
20 that must have been treated under mental pain and
21 anguish claims by individuals, and it must be assessed
22 on this basis.

23 The claimant must prove that the damage is direct
24 and has not been compensated by any other award of any
25 other panel for which the claimants can seek

1 compensation.

2 The claims for PTSD or MPA give rise to a number of
3 very serious objections, not the least being the lack of
4 directness. Dr Guyader will provide some explanations
5 which will assist us in the understanding of these
6 points.

7 Dr Guyader is a psychiatrist in charge of mental
8 training and mental health of Palestinians, a general
9 practitioner, and adviser to the Ministry of Foreign
10 Affairs on issues of mental health in Palestine.

11 Presentation by DR GUYADER

12 DR GUYADER: Herodotus wrote about the psychological effects
13 of battles. So did Shakespeare, so did Walt Whitman, so
14 did Philippe Pinel, so did Henri Juneau (?). In 1980,
15 American psychiatrists have invented the PTSD. So we
16 have to face the definition of PTSD, as to where it is
17 given by the DSM IV, revised.

18 A person is considered suffering from PTSD if he has
19 been exposed to a traumatic event in which both of the
20 following were present -- he has experienced, been
21 exposed to, witnessed or was confronted with an event or
22 events that involved actual or threatened death or
23 serious injury, or a threat to the physical integrity of
24 self or others; the person's response involved intense
25 fear, helplessness or horror.

1 The traumatic event has to be persistently
2 re-experienced in a specific way. The individual should
3 show persistent avoidance of stimuli associated with the
4 trauma, and numbing of general responsiveness that are
5 not present before the trauma. People have to show
6 persistence of neurovegetative symptoms of increased
7 arousal, not present before the trauma. The duration of
8 the symptoms should be more than one month. The
9 disturbance causes clinically significant distress or
10 impairment in social, occupational or other important
11 areas of functioning.

12 Where this situation of intense suffering lasts for
13 less than three months, then the PTSD is acute; over, it
14 is considered chronic; and it also can have a delayed
15 onset.

16 As we saw before, psychological damage from war has
17 been quoted in history by many authors for a long time.
18 It was invented. It is not a scientific discovery, it
19 is an invention of American psychiatrists in 1980, in
20 order to resume the symptoms presented by war veterans
21 of Vietnam.

22 It is very widely criticised. I will quote
23 Dr Summerfield, who says that it is an invention, and
24 who showed on what cultural and socio-economical shifts
25 was based the introduction of this new mental disorder.

1 Since this invention, a strong and painful reaction
2 to a harmful event has been shifted from normal to
3 abnormal. He also says that now victimhood, based on
4 the pervasive sound of experiencing emotional or
5 psychological damage, has become the norm.

6 I would say that PTSD is not a disease; as it says
7 it is a disorder. It is a way to characterise
8 a collection of symptoms as a mental illness, and it is
9 not generally admitted, and the differences raised
10 around the world are important.

11 For example, in the Lacanian School of
12 Psychoanalysis, which is widely spread around the world,
13 they say in their bulletin that a statistical
14 accountancy cannot validate a complaint as
15 a psychological suffering or as a mental disease.

16 Guy Briole, who is the chief psychiatrist of the
17 Val de Grace Military Hospital in Paris, says that with
18 PTSD an individual has to remain in a passive position,
19 waiting for a medical answer to his singular experience,
20 and is left to the only possible position left, to
21 become a victim.

22 Laurence Tessier, for the Berkeley University,
23 showed how much this invention culturally has to do with
24 cultural particularities, and it is difficult to figure
25 the way it can be taken into account outside the United

1 States or western countries.

2 Another point I will make, to see the differences
3 between PTSD and mental pain and anguish: both are
4 conventions. The definition of the causal effects are
5 very similar. The only main difference, to me, is that
6 in MPA the symptoms are not mentioned.

7 So we see that the theoretical aspects of
8 psychological trauma in war-time shows that the
9 unbearable experience will undo the psychological links
10 between real, symbolic and imaginary. This link is the
11 warrant of psychological integrity.

12 As Jacques Lacan said, if the event cannot be
13 symbolised, it will come back as if it was real. And
14 this is what happens with psychological trauma; people
15 have to face the event coming back as if it was real.
16 A social bond can rebuild the divided self by
17 reintroducing symbolism where it lacks, restoring the
18 disordered psyche. So this is the interest of mourning,
19 of recognition of the exposure to a traumatic event, of
20 symbolically or really compensation, of the work of
21 memory, of repentance by the aggressor, of psychiatric
22 and social care.

23 When we see the claims, it appears that there are
24 three difference exposures that could lead to PTSD:
25 direct exposure, indirect exposure and secondary

1 exposure.

2 With the direct exposure, particularly in Kuwait,
3 psychological trauma is determined by the traumatic
4 event experienced or witnessed. There is no question
5 about that.

6 In the indirect exposure, someone was told or saw
7 the event on the screen; that is the way it has been
8 presented in Saudi Arabia or elsewhere. And then, what
9 happens is that the individual has to build up his own
10 representation of the event, then the imaginary takes
11 over, the event is coloured by the individual's
12 psychological structure, and mostly by his fantastic
13 dramatic life. The trauma is caused by the way the
14 representation of one event triggers his own imaginary
15 feeling of horror. The event then to which this
16 individual was indirectly exposed is not the direct
17 cause of the PTSD.

18 In the secondary exposure, someone who has been
19 exposed to primary trauma sees it retriggered by a new
20 event. In this case, one has to know that the psyche
21 can protect oneself against the consequences of a trauma
22 by burying it in the depths of the unconsciousness. It
23 works if the individual says to himself: I want to know
24 absolutely nothing about what happened to me. It is
25 then possible that the psychological silence in which

1 the trauma is locked could be opened and the former
2 psychological suffering released and reapplied. Anybody
3 can open the jail door, anything can trigger the buried
4 trauma.

5 In the secondary trauma, the traumatic experience is
6 undoubtedly the main cause, it was mainly caused by the
7 first traumatic events and not by the second traumatic
8 event.

9 We can see indirect consequences of what I have just
10 said in looking at WHO country profile on mental health.
11 The 2001 study shows that there is mention of what
12 happened in Kuwait and the direct exposure could require
13 appropriate psychological, social and psychiatric care.
14 So then in this country profile there is the mention of
15 the creation of a PTSD treatment facility in Al-Reggie.
16 One has to know that the information given by states to
17 the WHO are generally not confirmed, but just quoted.

18 On the contrary, in Iran and Saudi Arabia, in the
19 2001 country profile, WHO does not mention anything of
20 this kind. It does not even quote the word "PTSD".

21 There would be general criticism on the claim for
22 mental health to be talked about.

23 First, there was absolutely no clinical evidence
24 given to the UNCC, not even samples of individual files.
25 Some major elements which could contribute to make the

1 evidence of additional costs are not mentioned in most
2 of the claims, like building care facilities; training
3 specialised staff -- nurses, social workers; recruiting
4 more psychiatrists or psychologists, like we have to do
5 in Palestine; training of PTSD interviewers, which we
6 have to do too; also, changing of the use of psychiatric
7 drugs not mentioned, like serotonin, reuptake inhibitors
8 or new generation neuroleptics, or Benzodiazepine or
9 hypnotics.

10 Thank you very much.

11 MR SCHNEIDER: Thank you, Dr Guyader. We will now move on
12 to the identification and measures of PTSD in the
13 context of these claims, and Dr Autier will address us.

14 Further presentation by DR AUTIER

15 DR AUTIER: As we know, post traumatic stress disorder was
16 assessed in Kuwait. There has been one last
17 cross-sectional study done in 1993 by first of all
18 Mr Al-Hammadi -- we did not receive the original of that
19 work. Then there was a second cross-sectional study
20 done in 1998 on 70 persons of adult subjects that were
21 surveyed in 1993 -- the first author is Dr Behbehani --
22 and the results from the second survey were not taken
23 into account because of the differences to assess the
24 PTSD.

25 In 1993, the survey performed was a random selection

1 of 600 Kuwaiti nationals. The participation rate was
2 very high. There was training of interviewers and there
3 were home-based interviews, but using eight different
4 psychometric instruments. So in fact, the interviews
5 were quite long at this moment.

6 Here we come to issues that are extremely important
7 when trying to measure the prevalence of a unique
8 psychological problem in a population. The prevalence
9 measured may vary because of the choice of instrument
10 used for assessing PTSD, such as the questionnaire and
11 the structure of the interview. The translation of the
12 instrument into the local language must follow very well
13 known rules in international (inaudible) for validation
14 and translation.

15 Also, the survey made must control for a very
16 important bias, called the social desirability bias.
17 That is, that the responder provides the answer that is
18 most expected by its social or cultural environment.
19 There are techniques that exist for minimising this
20 bias.

21 Another extremely important issue is which criteria
22 are used for deciding if a subject in the survey has or
23 does not have PTSD. We just saw with Dr Guyader how
24 complex the definition of PTSD is; there are many
25 criteria. Indeed, we would like to see whether the

1 instrument used has some correlation with the clinical
2 PTSD on clinical examination. We would also like to see
3 if the PTSD assessed by the instrument has some
4 correlation with actual experience of trauma. We would
5 also like to see that these criteria could make
6 a difference between a subclinical form of PTSD that may
7 be much more frequent than clinical PTSD. And also we
8 would like to have some idea of the different levels of
9 the severity of the PTSD.

10 We looked at the reports we had. In fact, the
11 instruments used for assessing PTSD in the reports are,
12 first of all, quite confusing, the instruments that were
13 used. But in 1993 the first instrument that was used
14 was the impact of event scale. Then after 1993 another
15 instrument was used, the CAPS II form. So the results
16 in 1993 have been analysed with the data from an
17 instrument that was different from the original one.
18 But using a different instrument is not without
19 consequences.

20 So if we look at the results in one report, when we
21 look at the others where we have newly diagnosed PTSD
22 according to the instrument, when the impact of event
23 scale is used you have 7 per cent with newly diagnosed
24 PTSD, compared to 23 per cent when the CAPS II form was
25 used. So that shows how the use of an instrument may

1 dramatically change the prevalence of PTSD within
2 a population.

3 So if we make a summary of did we get information in
4 methodology about the surveys done in 1983 about the
5 use, the reason for using the CAPS and not another type
6 of instrument, we have no information on that. And we
7 do not have any information on the translation
8 validation, the control of social desirability, the
9 criteria for establishing PTSD, and we do not know how
10 PTSD in the interview relates to clinical PTSD.

11 The analysis of the data: this table summarises the
12 results of 1993. The Kuwaiti nationals were divided
13 into three groups: the Kuwaiti nationals who stayed
14 always in Kuwait during the conflict, those who were
15 present at the conflict at the beginning but left the
16 country after some weeks, and those who were always out
17 of Kuwait during the entire conflict.

18 We see that those who were always out had
19 14 per cent of PTSD prevalence, according to the CAPS
20 form; and those who were always in had 25 per cent
21 prevalence; in and out were somewhere in between.

22 In children, the picture is a little bit different,
23 because those children who were always out had higher
24 PTSD prevalence than those who stayed in Kuwait. So,
25 the analysis was made simply by taking out the Kuwaiti

1 nationals who were always out and replacing the
2 14 per cent and 23 per cent by a background overall of
3 2 per cent, and with some calculation coming to 90,000
4 cases of PTSD due to the conflict.

5 So this was why we dropped the Kuwaitis who were
6 always out. The first reason given was forced
7 immigration, that was dropped after the Hammitt report,
8 that these people were always out, so it could not be
9 forced immigration.

10 The second reason given is that those who were
11 always out were traumatised by the vision on TV. When
12 we look at the evidence that people who were always out
13 were in contact with violence, from the data in the
14 report, those who were always out had a very low level
15 of contact with violence, and particularly nothing with
16 other forms of traumatic events.

17 This slide points to an inconsistency in the general
18 approach. This is a different survey, this is the
19 public health survey that started in October 2003, and
20 in that survey done in Kuwait, another sample of people,
21 we can see that the people who were always out of Kuwait
22 during the conflict were used as the reference group to
23 which extra mortality and extra disease incidence will
24 be compared and calculated. So it is of use that,
25 according to the disease in the study, apparently the

1 method of analysis has changed.

2 To give some background of PTSD prevalence,
3 2 per cent is something that is measured in our western
4 societies, essentially. So when we recalculate numbers
5 taking into account the comparison group of those who
6 were also out, we come to the very different figures of
7 about half of what was announced by the claimant.

8 Finally, only a very few persons with PTSD went and
9 tried to have medical attention. Why such a low figure?
10 One important reason that we raised, that the CAPS II
11 form, which is the questionnaire that was used, probably
12 identified the level of many people as having PTSD when
13 in fact they actually did not suffer from that disorder.

14 MR SCHNEIDER: One of the particularities of many of the
15 public health claims which we are considering here,
16 particularly those of Kuwait, and to some extent
17 Saudi Arabia, is that they do not rely on actual damage
18 and individual cases that have suffered a certain
19 disease.

20 Indeed, Kuwait made a major effort in establishing
21 actual damage, actual cases and costs, through intensive
22 studies over years, and then when they delivered that to
23 their new consultants, they concluded this did not prove
24 anything and they decided to abandon the attempt to
25 prove actual damage.

1 Private International Law at the University in Geneva.

2 Presentation by PROFESSOR KADNER

3 PROFESSOR KADNER: In my presentation I will focus from
4 a comparative private law perspective on two issues:
5 first, the use of models in statistical evidence and
6 damage claims; and, secondly, the issue of causation in
7 claims for psychological harm or PTSD or nervous shock.

8 Let us start with the use of models and statistical
9 evidence in private law claims. In all domestic or
10 international tort law systems, in order to succeed with
11 a claim for damages, it has to be proven with certainty
12 that damage or harm to a legally protected interest, for
13 example to health, life or property, has actually
14 occurred. Statistical evidence that damage might have
15 occurred is not sufficient in any private law system.

16 Without certainty of actual damage, no claim will
17 succeed.

18 The second point is that in private law, for
19 a damage claim to succeed it is not sufficient to show
20 that a person was exposed to a risk of becoming infected
21 with a severe disease. Private law takes exposure to
22 risk into consideration only if the risk actually
23 results in damage or harm.

24 This is true for the laws of US, Australia,
25 South Africa and all European tort law systems, for

1 example the laws of England, France and Germany. Let us
2 take an example. An employee may have worked 15 years
3 for an employer, during which time he was exposed to
4 asbestos. It is not sufficient for him to show that due
5 to this exposure there is a probability that he might
6 already have caught a disease or that there is a high
7 risk that he may suffer from a disease in the future.
8 He will only succeed with a damages claim if he manages
9 to prove with certainty that he actually suffers from
10 injury to his health.

11 Once damage to a legally protected interest is
12 established with certainty, consequential losses, such
13 as loss of income or treatment costs, also need to be
14 established with certainty. Statistical evidence and
15 probabilities may be used only in order to determine
16 future consequential losses, for example loss of future
17 income or future treatment costs.

18 What conclusion might we draw from those principles
19 of private law for the case we are dealing with? The
20 plaintiff only presumes that some of its citizens died
21 or will die as a result of the burning oil wells.
22 Unless it can be proven that the death rate in Kuwait
23 increased following the oil well fires, in applying
24 private law principles the claim must fail.

25 From the private law perspective, we would ask: why

1 should the requirements of proving actual damage be
2 lower for states than they are for individuals?

3 Let us now shift to the use of statistical evidence
4 to establish causation. Once damage, for example
5 a higher death rate, is established, models and
6 statistical evidence may in some legal systems help the
7 plaintiff to establish not the damage but the chain of
8 causation between the damage and the alleged cause of
9 this damage.

10 The most famous cases in private law concerning
11 uncertainty of causation are the asbestos cases.
12 Employees had worked for different employers who had
13 exposed them to asbestos. It was certain that they
14 suffered serious health damage. It was, however,
15 uncertain with which employer they had caught the
16 disease. In these cases, the courts lowered the
17 causation requirement and held liable all of the
18 employers who had exposed the employees to the same
19 danger.

20 In our case, the situation is very different.
21 First, damage cannot be proven. Secondly, the potential
22 sources of any presumed damage differ very much. The
23 death of some people in Kuwait may be caused by burning
24 oil wells, but it may also have been caused by natural
25 factors, we just heard it, or by causes attributable to

1 the victim himself. The situation we face in our case
2 is characterised by uncertainty as to the cause of
3 deaths and by the multitude of different potential
4 sources for each individual's death.

5 This situation differs considerably from the
6 asbestos cases, where it was certain that asbestos had
7 caused the damage and where the potential sources of
8 injury were similar -- employment with different
9 employers.

10 What is the role of statistical evidence in
11 a situation of uncertainty, such as the present one? In
12 some legal systems, for example the French, Belgian,
13 German or Austrian systems, in a situation of different
14 potential sources of harm the plaintiff needs to prove
15 with a probability close to certainty that a given
16 source -- in our case burning oil wells -- caused him
17 harm.

18 In others, mostly common law systems, notably the
19 laws of the US and England, in order to presume
20 causation the plaintiff needs to show that it is more
21 probable than not -- that means that there is
22 a 51 per cent probability at least -- that a certain
23 cause, for example toxic emissions, caused his disease.
24 A probability of causation below this threshold is not
25 sufficient to establish a presumption of causation.

1 Since in our case it cannot be established that it
2 is more likely than not that a certain number of people
3 in Kuwait died as a consequence of the burning oil
4 wells, the claim must fail.

5 Kuwait's claim is based on a value of human life of
6 US\$5.3 million. The method applied to determine the
7 value of life is the contingent valuation or willingness
8 to pay approach. In many regions of the world, for
9 example in Europe, this approach is not used at all.
10 Putting a monetary value on a human being's life is,
11 from a comparative private law perspective, very
12 exceptional. If you use this method, why should close
13 relatives of the victims not be entitled to claim such
14 amount in the case of a loss of, for example, a child?
15 This is not possible even in the US, where the
16 contingent valuation method was invented.

17 Let us come briefly to the issue of claims for
18 psychological damage or PTSD. In all legal systems, if
19 one party harms another, a third party that suffers
20 a nervous shock as a result may, under certain
21 circumstances, have a right for damages for pure
22 emotional harm, nervous shock or PTSD. The first
23 condition for liability in all private law systems is
24 that the individual suffers not merely from
25 a psychological disturbance but from an illness that

1 needs medical treatment.

2 Secondly, in order to establish an assumption of
3 causation, the plaintiff needs to show on the basis of
4 medical files of actual individuals -- here, again --
5 that it is more probable than not that his psychological
6 trauma was caused by the horrific event.

7 In the case we are dealing with, there is an
8 absolute lack of individual PTSD files. Neither damage
9 nor causation are established.

10 From a private law standpoint, there is a third
11 large hurdle to be overcome by such claims. All private
12 law systems -- for example in the US, England, France,
13 Germany, Switzerland and many, many others -- are
14 concerned to apply certain limits of liability and to
15 avoid opening the floodgates. That is why we draw
16 a sharp line between cases where a victim was seriously
17 physically injured, like the case in Kuwait, and brings
18 a claim for mental pain and anguish, and mental pain and
19 anguish in cases of pure emotional trauma.

20 In all legal systems, liability for pure emotional
21 trauma has important limits. In order to succeed with
22 a damage claim for pure emotional trauma, the victim
23 must either have feared for his own life in the
24 traumatic event or must have been involved in the
25 horrific event as a rescuer or must have lost a close

1 relative in the traumatic event -- a person to whom he
2 had a close tie of love and affection.

3 Victims in Saudi Arabia, Iran or other neighbouring
4 countries suffering PTSD do not meet any of these tests.
5 Under no private law system would liability for nervous
6 shock or PTSD exist towards persons who did not fear for
7 their own lives, who are strangers to the victims in
8 Kuwait and who were far from the scene and not at all
9 involved in the events.

10 Under French law, the chain of causation would be
11 interrupted -- in common law systems there would be no
12 duty of care owed to these third parties.

13 Applying these principles, any claim for PTSD
14 suffered by persons in countries not involved in the
15 conflict would fail. The same would be true for the
16 pure economic loss claims brought by the neighbouring
17 states, for example claims for general loss of quality
18 of life, general loss of productivity, costs incurred as
19 a consequence of the influx of refugees.

20 Here again, applying private law principles, we
21 would argue either that the chain of causality is
22 interrupted or that the damage amounts to indirect
23 losses or that the damages are too remote and there was
24 no duty of care owed to such third parties or states.

25 Thank you very much.

1 MR SCHNEIDER: Professor Sands, whom I have presented
2 yesterday, will now look at the same aspect from the
3 perspective of international law.

4 Presentation by PROFESSOR SANDS

5 PROFESSOR SANDS: Thank you, Mr Chairman, and members of the
6 Panel. In my first intervention yesterday I touched on
7 issues of applicable law. In particular, I referred to
8 the burden on the claimant to make the case that, in the
9 absence of clear rules adopted by the Security Council
10 or the Governing Council, their arguments had to be
11 justified in accordance with relevant rules of
12 international law. Exactly the same points apply to the
13 claimant's approach in respect to the methodologies they
14 invoke to quantify the losses they claim to have
15 suffered. As I mentioned yesterday, in international
16 law it is accepted that compensation can only be paid
17 for financially assessable damage. The assessability of
18 damage, the existence of damage, must also be in
19 accordance with established principles of international
20 law.

21 The Security Council has directed the Panel to apply
22 international law, not US law or practice, or the law or
23 practice of any other country or region. That practice
24 is certainly of great interest and I listened
25 attentively to yesterday's presentation, and numerous

1 references to "practice" which in my view is not
2 relevant to the issues before you today.

3 In any event, it is not nearly as straightforward as
4 Kuwait and others have seemed to make it. In relation
5 to methodologies, for example, the distinguished
6 American academic, Professor Richard Stewart, has
7 described evaluation methodologies, even in the
8 United States, as "a fledgling activity shot through
9 with uncertainty and controversy".

10 International law and practice do not recognise the
11 methodologies relied upon by the claimants in these
12 claims either. They are novel and they are untried.
13 They are what are referred to elsewhere as abstract or
14 theoretical methodologies of the kind which
15 international bodies, for example the Oil Pollution
16 Compensation Fund, have plainly not accepted.

17 In fact, it is striking that the claimants have not
18 referred again to any international treaty or other
19 international practice which could support the use of
20 these abstract and theoretical models in the computation
21 of such claims, also in respect of public health claims.

22 Reliance was made yesterday to an EC directive which
23 will come into effect 16 years after the events in the
24 Gulf of 1991, which does not cover environmental damage
25 in times of war and which does not cover damage caused

1 by oil pollution, subject to relevant international
2 conventions. It certainly does not apply to public
3 health claims. It is pure environmental damage alone,
4 so it is of no relevant at all in this context. It does
5 not assist the claimants, as I think they now seem to
6 appreciate, given their silence on it in their closing
7 submissions yesterday.

8 I am not aware of any other act of EC law which
9 endorses the theoretical methodologies relied upon by
10 the claimants in respect of key parts of their claims in
11 relation to public health.

12 I listened attentively to Professor Kadner on the
13 practice of national level, which would include also the
14 European Community level, and he explained the general
15 principle that it was not sufficient to use statistical
16 models to show that a claimant may have suffered harm or
17 could suffer harm in the future. It has to be shown
18 with certainty that actual harm has occurred.

19 If there is no general national practice to support
20 the use of such methodologies, it simply cannot be
21 argued that their use is reflected as a general
22 principle of law recognised by civilised nations. So
23 that head has to be put to one side.

24 Moreover, even if such harm to the health of
25 individuals could be demonstrated, then it was for the

1 individual claimant to bring his or her claim to the
2 UNCC, as Mr Schneider indicated. Under the scheme
3 established by the Governing Council, it is not for
4 a state to bring such a claim by way of diplomatic
5 protection. A state may only bring a claim in respect
6 of a loss it has suffered, provided such loss is direct,
7 reasonable and capable of financial assessment. The
8 claimants, therefore, have the burden of demonstrating
9 that the abstract and theoretical methodologies they
10 rely on are established in international law or that the
11 Security Council or the UNCC's Governing Council
12 intended that such methodologies be applied.

13 I have read the claimant's lengthy written pleadings
14 with great care. I see there is no evidence of loss
15 actually suffered by the states themselves -- a point
16 which has already been made this morning. In some
17 cases, the valuation methodology has not been explained
18 at all. What my professor, the late Sir Robert
19 Jennings, used to call "finger in the air" stuff.

20 Even where the valuation methodology has been
21 explained, it is novel and no effort has been made to
22 establish its status in international law.

23 In several instances, the valuation methodology
24 leads to claims which really are very large indeed. Yet
25 there is simply no way of testing them by reference to

1 established principles in international law. To the
2 best of my knowledge, there is no example of a single
3 international claim for environmental damage or
4 depletion to natural resources or harm to public health
5 which has succeeded where it is based on an abstract or
6 theoretical model, particularly in the absence of hard
7 evidence of harm having been suffered.

8 I know of no environmental treaty or practice under
9 such a treaty which adopts such an approach, although
10 several expressly exclude it. The Oil Pollution
11 Compensation Fund and its Resolution No. 3 of 1980,
12 which I know you are well aware of, Mr President, is
13 directly on point and is directly against the approach
14 argued for by the claimants.

15 Resolution No. 3 was adopted to provide as follows:

16 "The assessment of compensation to be paid by the
17 IOPC Fund is not to be made on the basis of an abstract
18 quantification of damage calculated in accordance with
19 theoretical models."

20 In my view, that is a wise and eminently sensible
21 approach and it would plainly exclude from that forum
22 the vast majority of claims which you are now facing,
23 including in relation to public health claims.

24 Is there any evidence before this Panel that the
25 Security Council wanted to depart from that wise

1 approach in the present case? I have not been able to
2 find any, and I look forward to hearing from the
3 claimants an explanation as to why a different approach
4 is now justified in the proper case.

5 Nor is there any case of which I know which would
6 support the claimants' expansive approach to a state's
7 liability for the public health consequences of alleged
8 environmental damage.

9 Yesterday the claimants made a great deal of the
10 principle in the Chorzow Factory case. Frankly, as
11 I said to my friend from Iran, if I were on that side of
12 the table, I would make exactly the same argument;
13 I would stick to generalities, and I would avoid
14 descending into detail. But I am afraid in any event
15 the Chorzow principle does not help them. The Chorzow
16 principle is not a magic position, it merely establishes
17 a principle of reparation, it does not determine whether
18 compensation or satisfaction is due and it certainly
19 does not dictate whether a particular methodology is to
20 be used.

21 Even if this Panel were to find the damage existed,
22 the Panel must decide whether or not the valuation
23 methodology proposed is recognised in international law.
24 There are not any examples to support that approach.
25 Chorzow does not assist.

1 Professor Scovazzi's paper, set out at annex A to
2 Iraq's response, sets out very fully the rules of
3 international law as they are now and as they were in
4 1991. There is no indication in his paper that
5 theoretical methodologies of the kind relied upon are
6 recognised in international law.

7 If the Panel adopts the approach proposed by the
8 claimants it will be taking international law into a new
9 domain, and that raises a very real question as to the
10 reasonableness of the approach taken by the claimants.

11 My view, it is not the function of this Panel,
12 notwithstanding the views of my distinguished colleagues
13 opposite, to legislate or to progressively develop the
14 rules of international law. As the International Court
15 of Justice put it in the Fisheries Jurisdiction case in
16 1974:

17 "The court cannot anticipate the law before the
18 legislator has laid it down."

19 The claimants have put before this Panel no material
20 which indicates that it was the intention of the
21 Security Council in Resolution 687 to progressively
22 develop the rules of international law in this way or to
23 have the Panel assume this function. There is nothing
24 in the drafting of Resolution 687 or Decision 7 which
25 indicates any intent that the Panel should adopt an

1 approach which was not already established in the rules
2 and practices of public international law.

3 To be clear, I am not aware of any instrument in the
4 laws of war that establish the quantum of any liability.
5 may be assessed on the basis of abstract or theoretical
6 methodologies, and certainly not where they exist in
7 just one or two countries.

8 Mr President, members of the Panel, the claims which
9 are presented go significantly beyond what the evidence
10 justified. The rules of international law, as they were
11 in 1991 and as they are today, permit the award of
12 compensation for loss actually suffered and for which
13 costs are actually incurred. On any other basis this
14 Panel risks opening up a Pandora's box, justifying all
15 sorts of remote, unreasonable and unquantifiable claims
16 which might be made in other contexts and in other fora.

17 I must say, speaking personally, I could not help
18 but imagine whether or not the legal advisers on the
19 other side, for Kuwait, for Saudi Arabia, for example,
20 have thought through the implications of their arguments
21 in relation to other matters. Statements made by states
22 have a probative value of customary international law.
23 They are state practice. When a state stands up and
24 says that so and so methodology is reflected in
25 international law and can be applied, it sets

1 a precedent. Have the advisers recognised what the
2 implications of merely making the argument will be for
3 future claims, say in relation to climate change? If
4 they are right, the door is opened to all sorts of
5 claims, now and in the future, in relation to losses of
6 public health and of the environment, which in present
7 international law are controversial, to say the least.

8 Is that what the Security Council intended? Is that
9 really what the claimants are seeking to achieve?

10 Mr Chairman and members of the Panel, that concludes
11 my presentation and I thank you for your attention.

12 MR SCHNEIDER: Thank you, Professor Sands. This indeed does
13 away with these claims on a basis of principle. I would
14 like just to clarify the reference which we made to the
15 comparative law. Municipal law is merely as a support
16 in the context of Article 38 of the statutes of the
17 court as a source of international law; comparative law,
18 general principles of law, being the source for
19 international law. We rest our case on international
20 law, and not, as some of the claimants did, on
21 a particular legal system.

22 The absence in any municipal system of the methods
23 which the claimants use here is, however, of great
24 interest in showing that the absence of such principles
25 in international law is not a coincidence, but is

1 inherent in general principles of law.

2 It is perhaps inappropriate to move on to
3 quantification of a claim which is so ill-founded.
4 Nevertheless, because of the way in which this procedure
5 is structured, by not having a separate decision on
6 principle, I must do so.

7 The quantification issues in the claims before the
8 Panel arise in a context here which is where the
9 deficiencies which we have heard in other claims are
10 even more blatant. We have addressed the deficiencies
11 on earlier occasions in the context of public health
12 claims. The quantification arises in a manner which is
13 different to many other circumstances, because we must
14 take account of the funding and budgeting of the public
15 health activity of the state.

16 A public health system is not operated and funded as
17 a commercial enterprise. Public health services of
18 a government are not a business, and they are not run
19 like a business. The state provides the public health
20 as part of the state's service, without direct relation
21 to the forces of supply and demand.

22 This is very important to bear in mind, in
23 particular when we consider these claims. The health
24 systems are laid out to meet a certain capacity range of
25 patients and possible diseases and possible treatment

1 necessities, and increases in the demand in the patients
2 that have to be treated have little financial effect
3 because the system is laid out to deal with everything
4 that can be expected to come.

5 It is these particularities of the public health
6 system and the financial aspects of the public health
7 system which we want to address now, and we do it with
8 the help of Professor Jean de Kervasdoue, who is
9 a professor of public health in the Conservatoire
10 Nationale des Arts et Metiers in Paris and a visiting
11 professor at Yale University. For five years he has
12 been in charge of the public health system in the
13 Ministry of Health in France.

14 Presentation by PROFESSOR DE KERVASDOUE

15 PROFESSOR DE KERVASDOUE: I will make two introductory
16 remarks and then will go through the different country
17 claims.

18 My first remark has to do with this data from WHO.
19 If you look at the different claimants, you will see
20 that you have three types of categories. You have two
21 countries, Saudi Arabia and Kuwait, who spend around
22 \$600 per capita per year; two countries, Jordan and
23 Iran, who spend around \$400; and one country, Syria,
24 which spends around \$266 per year. I have put the
25 French, UK and American figures for the same years, and

1 you see the level is quite different. We will come back
2 to that.

3 You also see that the supplies of qualified manpower
4 in these countries is quite high, and this is important
5 for the claims, since health care is an industry related
6 to qualified manpower. You will also see -- this is
7 anecdotal -- that the Kuwait men have a life expectancy
8 which is higher than American men, although the
9 expenditure is eight times less.

10 The other introductory remark has to do with the
11 concept of value of statistical life. Two claimants,
12 Kuwait and the Kingdom of Saudi Arabia, have used that
13 concept. It is important to know where that concept
14 comes from. It comes from what a country is ready to
15 pay for implicit risks (?) within itself. For example,
16 in America in 1995 the number of deaths per 100,000
17 workers in the mining industry was 24 and the number of
18 deaths in the commerce and trade industry, was 2.8.
19 Then if you compare the cost of manpower in mining and
20 the cost of manpower in trade, you see the miners are
21 better paid, and you divide by the number of deaths,
22 then you have the value of statistical life. That is
23 where this concept comes from.

24 This concept is never used in economics, I never saw
25 it used. And you see that the figures which have been

1 used by the claimants are surprising.

2 In 1991, the average US value of statistical life
3 was \$3 million. You have international studies that
4 I reviewed of the value of statistical life and there is
5 no study quoted for Kuwait and Saudi Arabia. There is
6 a study for Korea, Taiwan, Canada and so on. You see
7 that the value goes down as the average income of the
8 country goes down, to \$0.5 million. I was surprised to
9 find that Saudi Arabia had a figure which was higher
10 than the US, and Kuwait even higher.

11 It is interesting to note that such a value has been
12 chosen, when annual health expenditure in these
13 countries is so low. If this country values life so
14 much, why do they spend so little on their health care?

15 The only figure I could find on compensation is a
16 treaty, the Montreal Convention for Aeroplane Accidents,
17 which replaced the Warsaw Convention, which gives an
18 allowance of \$142,000 per death. That is this year's
19 figure, so we are very far from the value of statistical
20 life.

21 Let us go quickly through the different claims and
22 their economical consequences. For Kuwait, the figure
23 you have to look at is that most of the health
24 expenditure in Kuwait is public, 87 per cent. As was
25 said previously, there is no direct epidemiological data

1 or indirect evidence of the health consequences of the
2 smoke plumes, even amongst the most exposed population,
3 which were firefighters and soldiers. And, as you know,
4 the revised claim for general morbidity is zero.

5 So we are back to the PTSD claim. As you know,
6 and as was presented by Dr Guyader, only a small
7 proportion of the PTSD population got treatment. The
8 figure we had was less than 3,000 patients at the
9 Al Reggie Centre. We also know from the Hammitt Report
10 that these patients got 4.66 visits per year per
11 patient. I was again surprised, because the cost per
12 visit was above \$20; in France the same visit is \$54,
13 and in another part of the Hammitt Report we have
14 another figure of \$279.

15 When you try to compute what would be the cost of
16 the care of these 3,000 patients, according to the
17 figures in the reference, you find very different
18 figures. If you take the French figure, you will find
19 something slightly above \$2 million, when you take the
20 Arifat figure it is \$10 million, and when you take the
21 claim it is \$25 million.

22 When you look at Iran, you see that less than
23 50 per cent of health expenditure is public, so most of
24 it is private. The claims were for excess morbidity
25 across a wide range of diseases, cost of mental health,

1 refugee care and so on.

2 In the report, we never had any direct or indirect
3 evidence of the consequences of this alleged disease: no
4 more visits or admissions into hospitals, no recruitment
5 of health professionals and so on. So it was also
6 surprising that when you look at different parts of the
7 reports, you find that in some cases two provinces are
8 concerned, in others five, in others 10.

9 In fact, only Khuzestan was significantly affected
10 by the smoke plumes. The malaria increase was not
11 related to the conflict, the refugees are not part of
12 the claim, and a further claim could not be prepared due
13 to the lack of evidence.

14 I was unable to validate them, but even if you
15 consider that the costs figures given by Iran are
16 acceptable, and if you consider that 40 per cent of 85
17 cases was related to the smoke plume, for which we have
18 no evidence, I did a computation that the claims would
19 be in the order of \$6 million. Fifty per cent is also
20 public expenditure for health care in Iran.

21 For Jordan, as you know, the claim is of a different
22 nature. Public expenditure in Jordan is 51 per cent.
23 The claim has to do with low birth weight infants and
24 also PTSD, but that was already addressed.

25 Of course, and unfortunately in Jordan, like in many

1 other countries, there are low birth weight infants and
2 malnourished children. However, there is no evidence
3 that their relative or absolute number increased, so
4 that at the end of 1991 and in 1997, by the Jordan
5 Population and Family Health Ministry, and they do not
6 mention the question of refugees. There is no link
7 between low birth weights and malnutrition and, as was
8 said before, mental stress is not a disease, and there
9 is no document supporting the assertions of Jordan's
10 experience of mental stress.

11 If you look at the World Bank Human Development
12 Network and Development Data Group, the malnutrition
13 rate for children in Jordan under the age of five years
14 is stable before and after the conflict; it is around
15 6 per cent.

16 So the number of children who died from the conflict
17 or could have died is hypothetical. There are no
18 serious economical ways to compute for the financial
19 consequences of an infant death. If there were some
20 evidence for such deaths related to the conflict, the
21 court could decide on a pretium doloris.

22 The cost of treating low birth weight children is
23 high because these children are treated in neonatal
24 care. In France it varies from \$60,000 to \$90,000 per
25 month, which is for the average length of stay for this

1 type of treatment.

2 Let us together make assumptions. The number of
3 births in Jordan did not rise during the conflict. You
4 see 132,000 during and 138,000 after the conflict, and
5 these figures are lower than births from 1993 to 1996.

6 Let us assume that 10,000 births were given by
7 mothers of refugees or returnees in Jordan. We know
8 that 1.2 per cent of these births leads to extra low
9 birth weight children, and assuming that costs in Jordan
10 will be one third of French costs, then we have
11 a maximum figure of \$2 million. That would be a very
12 generous compensation, for there is absolutely no
13 evidence whatsoever that there were more births and more
14 births related to the conflict.

15 Saudi Arabia, mostly public expenditure. The claims
16 are similar to Iran's claims; the value of statistical
17 life is very high. We have no direct evidence or
18 indirect evidence of health expenditure and so on and so
19 forth.

20 We even have contrary evidence from the military
21 affairs, since the Government of Saudi Arabia says:

22 "In spite of constrained resources shaped by the
23 fifth development plan, health and social services were
24 maintained at their fourth plan levels."

25 So they did not increase during or after the

1 conflict, and there was no evidence of subsequent
2 deficit.

3 Again, when you look at medical costs, when you look
4 at the computation, it was first based on Kuwait, then
5 it was based on one hospital in Saudi Arabia from
6 figures not in 1991 but for 1998, and so on and so
7 forth. So this basis for this computation is very weak.
8 And it is the cost of what? It has used costs from
9 American DRGs or American HMOs for annual disease and it
10 has used an average cost for respiratory disease and an
11 average cost for cardiac disease and so on and so forth,
12 but we do not know the average of what. Since care of
13 respiratory disease or heart disease varies a lot;
14 whether you have a heart transplant or minor cardiac.

15 I would end by saying that if Saudi Arabia thought
16 that there were some financial consequences of the
17 conflict to the health of the population, it should have
18 shown us the evidence of extra cases. It should have
19 shown an audited increase of expenditure in the
20 concerned health institutions, as well as the national
21 budget of the Kingdom -- since I remind you it is public
22 expenditure in Saudi Arabia, and this information was
23 not provided.

24 So not only do we not have any evidence of extra
25 cases but we do not have evidence of extra costs.

1 Instead of that, we have a global amount which
2 represents 1.4 times the amount of annual health
3 expenditures in the Kingdom as compensation.

4 Thank you, Mr Chairman.

5 MR SCHNEIDER: Thank you, Professor de Kervasdoue.

6 We have a last look at certain components of the
7 costing of these claims, as we have done in other
8 instances. The analysis is being conducted by
9 David Cross, a chartered quantity surveyor from
10 Northcroft company, who has over 30 years of practice in
11 examining cost factors in a variety of projects.
12 Mr Cross.

13 Presentation by MR CROSS

14 MR CROSS: Thank you. I would like to look at some general
15 principles regarding the claims. The claims as
16 submitted contain two elements of costs: historic costs
17 and future costs. Considering historic costs, we would
18 expect that these would consist entirely of firm and
19 accurate records. But in fact, what do we get? We get
20 the estimates, purely theoretical for the most part. In
21 terms of future costs. Again, we would expect that
22 these would be reasonable and relevant and based to
23 a large extent on previous records. But in fact, what
24 we get are unreasonable, projected estimates based in
25 turn on those previously assessed estimates.

1 Looking at this in a little more detail, with
2 historic costs we would expect that these would provide
3 evidence to demonstrate an additional burden on the
4 state health services, that they would provide a causal
5 link to the conflict and there would be firm evidence of
6 quantities and costs.

7 With respect to the future costs, these would
8 contain estimates derived from realistic trend projects,
9 there would be reasonable assumptions for inflation and
10 a net present value discount to bring costs back to
11 a present value.

12 However, in terms of real data, there is very little
13 for us to assess.

14 The following slides indicate some of the key
15 concerns related to costs and estimated data that have
16 been submitted by each claimant country. I will merely
17 highlight some of the matters here.

18 Theoretical assessment of quantities and theoretical
19 treatment costs, which were in themselves derived from
20 US equivalent costs.

21 In the case of Saudi Arabia, again theoretical
22 assessment of average charges, and we heard that
23 discussed just a few moments ago; no demonstration of
24 any additional burden on the state health service.

25 In the case of Iran, there are virtually no records

1 provided to us of health treatment costs.

2 Interestingly, the claim commences in 1990, before any
3 possible link to the smoke plume.

4 In the case of Jordan, this is based entirely on
5 theoretical calculation, as we have heard, and contains
6 a large number of unreasonable assumptions.

7 Finally, in the case of Syria, it is only based, as
8 far as we have been provided with, on summary costs.
9 These summary costs themselves would appear to be budget
10 costs rather than actual costs. I say this purely
11 because they are rounded off to the nearest unit of
12 thousands.

13 Thank you very much for your time.

14 MR SCHNEIDER: Mr Chairman, members of the Panel, this
15 brings us to the end of the part of this morning's
16 presentation dealing with public health claims.

17 At this stage, I must bring to the Panel a point of
18 concern, and indeed a problem. We have, of course,
19 presented our case with respect to principle of
20 liability or principle of entitlement, and believe that
21 we are very strong in this respect. But if you should
22 move on to the question of quantification and look into
23 any of these claims, and in particular into the claims
24 of Kuwait, we have a serious concern.

25 As you have seen, Kuwait has changed fundamentally

1 its approach to these claims, and it has done so by
2 bringing in a very distinguished university group, the
3 Harvard School of Public Health. As you have heard, we
4 have received from Kuwait ongoing material -- these
5 studies are still ongoing and are not complete -- and in
6 our own evaluation of what Kuwait has transmitted to us,
7 we have not completed this examination. From what we
8 have seen now and from what you have heard from the
9 analysis of our expert, we have very serious concerns
10 about the method and the methodology and the soundness
11 with which these studies are conducted.

12 In fact, we believe that there are a number of very
13 serious effects in these studies.

14 It is, of course, very difficult to argue against
15 a group of scientists of such distinction. What we
16 would suggest, in fact indeed request the Panel to do if
17 you reach this stage, that the substance of the claim
18 will be taken further -- and it is not just the claim of
19 Kuwait, because you have seen the impact which the
20 Harvard studies have had on the other claimants, in
21 particular on Saudi Arabia.

22 If you reach this stage, we recommend that the Panel
23 order a peer review, that these studies by Harvard be
24 submitted to peer scientists of the same calibre, who
25 examine the studies and make a report on these studies.

1 It is with this request that I complete the presentation
2 on public health.

3 Moving on now to another point which is of great
4 importance to us, which we have put on the agenda, to
5 which we drew the Panel's attention, that concerns the
6 context in which the claims, in particular of
7 Saudi Arabia and Iran, have to be assessed.

8 In the proceedings before this Panel there has been
9 very much emphasis on the damage suffered by the
10 claimants. This is indeed the principal function of the
11 Panel and of the UNCC's work in general.

12 But assessing the claimants' damage in these
13 proceedings requires that all financial consequences be
14 considered -- the negative ones as well as the positive
15 ones. This requires us and the Panel to look also at
16 the gains which the claimants or some of the claimants
17 have made from the events which have caused the
18 liability of Iraq and which are the basis on which the
19 claimants seek compensation.

20 As I said, we are concerned here in particular with
21 Saudi Arabia and Iran.

22 The context in which this issue of benefits, the
23 positive aspects for the claimants, arises is that on
24 2nd August 1990, immediately after the beginning of the
25 conflict, the export of oil both from Kuwait and from

1 Iraq ceased practically immediately. This cessation of
2 the exports of oil from these two countries is the
3 direct consequence of the invasion and occupation of
4 Kuwait and therefore must be part of the consideration,
5 part of the elements of fact on which the Panel bases
6 its assessments.

7 Therefore, it must be also taken into account when
8 determining the damage for which Iraq is liable.

9 Kuwait resumed gradually its production of oil as
10 from 1991, and Iraq only returned on the oil market in
11 a particularly constrained mechanism, the oil for food
12 mechanism, in 1998.

13 Both Kuwait and Iraq suffered serious loss from this
14 nonexporting, nonproduction, this shortage of
15 production. In fact, Kuwait suffered this loss and
16 brought it to the Commission, and indeed was compensated
17 for the shortfall in its production which, in the case
18 of Kuwait, for a relatively short period, amounted to
19 some \$14 billion plus the oil, but the actual loss of
20 the production of oil in the order of \$14 billion, and
21 \$14 billion were awarded to Kuwait in the fourth
22 instalment.

23 The reduction of production in oil and the
24 corresponding loss on the side of Kuwait corresponded to
25 a benefit on the side of those countries that moved in

1 to fill this gap. The benefit is of two types. There
2 is an immediate benefit in the form of price increase,
3 and I will read to the Panel an extract from a decision
4 from the report of another Panel, the E1 Panel, in the
5 first instalment, which reached a conclusion:

6 "That because oil prices after 2 August 1999, which
7 had a direct effect on the GSPs, increased drastically
8 as a result of Iraq's invasion of Kuwait, and the fears
9 of shortages that ensured."

10 This is one part, the sharp increase in price.

11 The other part is the additional quantities
12 resulting from the removal from the market of these two
13 suppliers. These two elements have, in effect, the
14 price increase affected all the suppliers; it was
15 a benefit primarily to those suppliers who were capable
16 of stepping in quickly. The details of the manner in
17 which, in particular, the Kingdom of Saudi Arabia
18 stepped into this situation will be explained by
19 Mr Clements, and I will come to Mr Clements' technical
20 explanation in a moment.

21 But I want to explain first how other panels have
22 dealt with the question of the profits which have been
23 achieved by extraordinary revenue which has been
24 achieved in connection with the damage by claimants and
25 which have to be taken into consideration here when the

1 Panel assesses the natural resources damage of
2 Saudi Arabia and Iran. The profits which they made from
3 their own natural resources have to be taken into
4 consideration.

5 Indeed, other panels have adjusted claims by
6 reducing the award made for compensation, in order to
7 take account of additional profits.

8 The E1 Panel made adjustments in claims and said:

9 "Therefore, the Panel finds that the claim should be
10 adjusted to reflect the joint venture's real loss in
11 compensating for or setting off the additional profits."

12 In fact, the E4 Panel, in another case, referred to
13 "windfall profit". In the first instalment, they
14 referred to "extraordinary gain", and I read from the
15 first instalment:

16 "In measuring the loss actually suffered by such
17 claimants, the Panel is of the view that it is not
18 appropriate to compensate a claimant for losses suffered
19 as a direct result of Iraq's invasion and occupation of
20 Kuwait without considering extraordinary gains earned as
21 a direct result of the same invasion and occupation."

22 So this is the principle that must be taken into
23 account.

24 The manner in which this should be done, for this
25 purpose we have addressed ourselves to IHS Energy,

1 a renowned petroleum economics consultancy, which we
2 requested to calculate this windfall profit by
3 Saudi Arabia and Iran, and these calculations show that
4 Saudi Arabia made a windfall profit on these two counts
5 in the period between August 1991 to December 1998 in
6 approximately an amount of \$116 billion. Iran's
7 windfall profit under the different circumstances which
8 applied there amounted to \$24 billion. The report is in
9 the papers we have submitted.

10 The calculation will now be presented by one of
11 IHS's directors, Mr Charles Clements, the author of the
12 report. He is an expert in oil and gas production and
13 petroleum economics, with over 24 years of in-depth oil
14 business experience.

15 Presentation by MR CLEMENTS

16 MR CLEMENTS: Thank you. My name is Charles Lucas Clements,
17 I am speaking on behalf of the Government of Iraq. I am
18 presenting an analysis on the extent to which
19 Saudi Arabia and Iran, through their separate efforts to
20 meet the world's oil supply needs, benefited from the
21 curtailment of oil production, both in Kuwait and Iraq,
22 during the period from 1990 to 1998.

23 First, let me explain my and my company's
24 eligibility to comment on the issue. IHS Energy is made
25 up of a set of world-class companies which have gathered

1 oil and gas historical data and analysed it over the
2 last 70 years. We are a private and independent company
3 and hold the largest commercial oil and gas databases of
4 this sort by a factor of at least three.

5 Let me explain the methodology of the analysis we
6 have performed. We have calculated two base revenue
7 benefits: one, volume; one, price. Against this, we
8 have calculated two differential costs or losses. For
9 Saudi Arabia, this includes a lost value on gas; the
10 second costs are the differential costs of producing the
11 additional volume. Before proceeding, we verified the
12 IHS Energy data against other credible sources. These
13 included information provided by the Saudi Arabian
14 Ministry of Petroleum and Minerals website, the US
15 Government CIA data, and commercial data from both BP
16 and ENI. What this shows is that the differences in all
17 of these data points was less than 6 per cent. IHS
18 Energy's typically was the lowest.

19 If we look at the key events over this period, this
20 graph shows that Kuwait production was down from 1990
21 and did not fully recover until 1993. Iraq's production
22 was down from 1990 and did not fully recover until 1998,
23 when phase 2 of the UN food for oil programme allowed
24 the raising of Iraq's production to levels equivalent to
25 prewar level.

1 Saudi Arabia, in contrast, raised production from
2 5 million barrels a day to 8.5 million barrels a day,
3 immediately.

4 If we look in detail at what happened as
5 Saudi Arabia reacted to its role as the swing producer,
6 Saudi Arabia in 1995 recommissioned 14 existing fields
7 that had been shut down in 1938, due to concerns at the
8 time of over-production and flaring. Once reinstated,
9 these fields, as can be seen, maintained production and
10 still produce today.

11 In calculating the revenue gain, we have followed an
12 identical process to that used and agreed to during the
13 fourth instalment, this being the non-invasion price
14 would have remained stable during the period of 1990 to
15 1993 and then was at market price thereafter.

16 We have split prices into two grades of crude, light
17 crude and heavy crude, and into two nominal
18 destinations, the US Gulf coast and Rotterdam. Asian
19 deliveries were equated to Rotterdam, which was
20 a conservative assumption, because Asia typically pays
21 a premium, even above the shipping cost.

22 We have taken the prices as reported netback prices
23 at Saudi ports, as published by the magazine MEES at the
24 time.

25 To derive the differential volume, we have

1 calculated a non-invasion volume profile to use as the
2 base. This base was based upon the following things.

3 One, we have assumed that all OPEC contributors
4 other than Saudi Arabia produced on their prewar trend
5 level.

6 Secondly, we have assumed that Kuwait would have
7 produced at a constant level during the period 1990 to
8 1993.

9 Thirdly, we have assumed that Iraq would have
10 produced at a constant flat level during the period of
11 1990 to 1998.

12 The Saudi production was then defined as the swing
13 volume, to top up to the overall OPEC production level,
14 rising only as demand rises. This is shown in blue.
15 The differential volume is then the difference between
16 the non-invasion curve and the actual curve, which is
17 shown in red.

18 In summary, we calculated the resulting revenue
19 benefit to Saudi Arabia during the period from 1990 to
20 1998 to be \$106 billion, due to the additional volume at
21 non-invasion prices -- a contribution of \$11 billion
22 from the differential price on the base volume, and
23 finally a quantity of \$6 billion to be the coincidental
24 differential price and additional volume. This equates
25 to a total of \$122.9 billion of benefit.

1 In contrast, the potential loss of revenue from the
2 differential gas that was probably flared -- and again
3 we have assumed total loss over the whole period -- is
4 calculated to be \$3.7 billion at a market price of \$1
5 per 1,000 standard cubic feet. In addition, we have
6 subtracted the marginal cost production for the
7 additional volume, and that is estimated to be a maximum
8 of \$3 billion, of which our calculations indicate that
9 50 per cent of this is attributable to insurance, which
10 companies such as Saudi Aramco normally are
11 self-insured, so this normally would never have been
12 spent. The resulting net cash benefit to Saudi Arabia
13 during this period is calculated as \$116.2 billion.

14 The same process was used to calculate the net
15 benefit to Iran. Again, the verification exercise
16 indicates that the IHS numbers are the most
17 conservative. The non-invasion volume was calculated to
18 be the pro-rated percentage volume of OPEC production,
19 starting at 12.9 per cent in 1990 and finishing at
20 12.1 per cent in 1998. The actual production shows Iran
21 commissioned new production gradually through the void
22 period.

23 The resulting net gain is then derived, showing an
24 additional revenue stream of \$12.7 billion of revenue.
25 We have a differential cost associated with production

1 costs for the additional volume, it would equate to
2 \$619 million, giving an overall net benefit to Iraq of
3 \$12.06 billion. As this analysis shows unequivocally,
4 both Iran and Saudi Arabia benefited substantially from
5 the period when Iraq and Kuwait could not produce.

6 MR SCHNEIDER: In conclusion on this point, I would like to
7 take the Panel again to the passage I mentioned before,
8 where another panel considering a similar situation
9 decided against the losses suffered, the extraordinary
10 gains earned as a direct result of the same invasion and
11 occupation must be taken into consideration, and indeed
12 offset.

13 Completing the examination of the public health
14 claims that have been made in these proceedings, one is
15 faced with a striking observation. When we examine what
16 happened with the Kuwaiti claim, where the new M&A
17 activity led to an abandonment of what was previously
18 the bulk, and where the experts which Kuwait brought in,
19 in sometimes quite touching terms, complimented the
20 extraordinary efforts that the scientists in Kuwait had
21 made to assemble all the data, but then concluded all of
22 this is neither here nor there, they cannot establish
23 damage, nor did they say they can establish absence of
24 damage.

25 If Kuwait directly amended the claim for public

1 health damage after a failed attempt to provide direct
2 damage, replaced by speculative models and exercises in
3 risk assessment, one would think that in the other
4 countries the claims would drop even further and would
5 be totally abandoned. But what we see is exactly the
6 opposite. We see that the Kingdom of Saudi Arabia,
7 which says it is inspired by the work of Kuwait's
8 consultants, increases its claim from \$4 billion to
9 \$13.5 billion, and now we have reached \$19.8 billion and
10 we are looking forward to the increases we may hear at
11 their response later in the day.

12 Iran has a similar dramatic increase. It started
13 out with \$144 million and now they are at \$7.3 billion.
14 How is it possible that in a situation where Kuwait
15 faces such difficulties in establishing concretely
16 a public health damage, these countries that have been
17 remote from the battlefield, how they have reached such
18 enormous increases?

19 But I need not belabour this point any further, and
20 all the difficulties that are inherent in the manner in
21 which the claimants have quantified their claims,
22 because, as we have pointed out before, these claims
23 must fail as a matter of principle, both in the method
24 they have chosen to establish damage, but even more so
25 on the basis of the lack of jurisdiction. The type of

1 damage which the claimants seek here is not provided for
2 compensation in the context of the UNCC.

3 Thank you very much, Mr Chairman, members of the
4 Panel.

5 (12.25 pm)

6 (Short break)

7 THE CHAIRMAN: Thank you very much indeed. That brings us
8 very closely to 12.30. We have agreed that Mr Lonsberg
9 will make a presentation on behalf of the claimants in
10 respect to the legal issues for 15 minutes, after which
11 we will adjourn, and then when we come back, Kuwait's
12 main comments will then be made. At this point, I will
13 invite Mr Lonsberg to make the presentation in respect
14 of the legal issues on behalf of the claimants.

15 Presentation by STATE OF KUWAIT

16 MR LONSBURG: Thank you, Mr Chairman. At the outset, we
17 will summarise the various components or units of the
18 claim of the State of Kuwait for damage to public
19 health. We will then discuss specific factual legal
20 issues which arise in respect of those components and,
21 as always, we will use our experts to address the Panel.
22 After summarising the claims, to put this in context, as
23 you have requested, we will discuss the legal issues
24 raised by the Panel in Procedural Order No. 4 with
25 respect to all other health claims; that is:

1 specifically in what circumstances can a Government
2 claim compensation for reduction of life, reduction of
3 life expectancy or reduced quality of life of its
4 nationals?

5 Before turning to the legal issues, I will summarise
6 the claim specifically and put the discussion in
7 context. First, we have a claim for damage for reduced
8 morbidity and mortality. Second, we have a claim
9 relating to PTSD. Third, we have a claim for costs of
10 treating traumatic injuries caused by mines and
11 ordnance, which is a very small claim in value but
12 a very sympathetic claim in nature. We will not spend
13 much time on that when we turn back to the claims.

14 Procedural Order No. 4 requests the public health
15 claimants to address the specific topic: under what
16 circumstances can a government claim compensation for
17 the loss of life, reduction in life expectancy or
18 reduced quality of life of its nationals? As we did
19 yesterday, we addressed this issue on behalf of the
20 claimants that have public health claims in this
21 instalment. We have consulted with the other claimants
22 on these remarks but, as yesterday, we anticipate that
23 some of the claimants may have additional remarks on
24 this issue in the light of the specifics of their
25 claims.

1 Just one brief comment before turning to these
2 common legal issues. I believe it is critical in these
3 discussions and in your deliberations that we remember
4 carefully the context in which we are operating. The
5 Commission is not addressing issues of claimants in the
6 context of merely negligent or faultless action, to
7 which a large part of the prior presentation this
8 morning was discussed. Instead, we are engaged in
9 a process of determining the liability of Iraq under
10 Security Council Resolution 687 for the recognised
11 internationally wrongful act that it committed.

12 With respect to loss of life, reduction of life
13 expectancy and reduced health, wellbeing and quality of
14 life on the part of the claimant's nationals, we will
15 develop two principles which we believe are raised by
16 this inquiry.

17 First, under the established principles of the
18 Commission on International Law, governments are proper
19 claimants for all of these losses and are entitled to
20 assert all of these claims as claims of the state.

21 Second, claims for loss of life and reduced
22 wellbeing and reduced quality of life are clearly and
23 properly compensable by the Commission.

24 First, we will address what we have referred to as
25 the issue of standing. We respectfully submit that

1 under settled principles of international law the loss
2 of life and reduced quality of life of claimant state
3 nationals represent what are deemed to be injuries on
4 the state or in any event are deemed to be claims that
5 can be asserted as claims of the state, not of the
6 individuals.

7 The subject matter of these claims may be the
8 nationals of the claimants, their conditions of health,
9 but when asserted by the state the claim is that of the
10 state.

11 Contrary to what has been asserted this morning, we
12 respectfully submit that these claims cannot be viewed to
13 represent indirect loss, since by the nature of these
14 claims they are and can only be, as we will discuss
15 after lunch, claims of the state by their nature. They
16 are not, by their nature, claims of the individuals
17 which are brought by the states on behalf of the
18 individuals; they are, nevertheless, direct losses
19 incurred with reference to individual nationals, which
20 by their nature must be brought as claims of their
21 states.

22 Further, in terms of the principle of diplomatic
23 protection, the injury to nationals of the states are
24 also deemed to be direct injuries to the state that
25 espouses those claims.

1 For more than 80 years, international law has
2 consistently taken the view that injury to a national of
3 one state caused by another government gives rise to
4 a claim that belongs to the state of the national and
5 not to the individual. This conclusion is sometimes
6 expressed under the concept of diplomatic protection,
7 which here refers to the right of the state to take
8 judicial and diplomatic action to ensure that other
9 nations' obligations towards the state are respected in
10 the other nation's treatment of the state's nationals.
11 The law relating to this concept was well summarised in
12 the 1912 opinion concerning the distribution of an
13 international award by the Solicitor of the US State
14 Department:

15 "By espousing a claim of its national for injuries
16 inflicted by a foreign government, the espousing
17 government makes the claim its own ... In presenting
18 a claim diplomatically, our Government acts in its
19 sovereign capacity and therefore is acting neither as an
20 agent for the claimant nor as trustee for the claimant."

21 The most widely cited description of the character
22 of international claims arising from injuries to
23 individuals was provided by the Permanent Court of
24 International Justice in the Mavrommatis Palestine
25 Concessions case. In that case, Greece brought claims

1 for an indemnity on the ground that one of its subjects
2 was treated by the British authorities in a manner
3 incompatible with international obligations when those
4 authorities refused to recognise the Greek's rights
5 under agreements with a previous ruler of Palestine.
6 Great Britain objected to jurisdiction, asserting that
7 the case was not a dispute between two states. The
8 court rejected the objection and formulated a statement
9 often cited thereafter:

10 "It is true that the dispute was at first between
11 a private person and a state -- that is, between
12 Mr Mavrommatis and Great Britain. Subsequently, the
13 Greek Government took up the case. The dispute then
14 entered upon a new phase; it entered the domain of
15 international law and became a dispute between two
16 states."

17 Similarly, in 1929 the Permanent Court of
18 International Justice held that it had jurisdiction over
19 a claim of France brought against Serbia concerning
20 loans extended to Serbia by French creditors.

21 The court relied on its conclusion in the
22 Mavrommatis Palestine Concessions case and stated that
23 France "by taking up a case on behalf of one of its
24 nationals before an international tribunal is asserting
25 its own right -- that is to say, its right to ensure in

1 the person of its subject respect for the rules of
2 international law."

3 The 1930s Trail Smelter arbitration illustrates the
4 application of this principle in the context of
5 environmental claims. In that case, the United States
6 asserted a claim against Canada for damage suffered by
7 United States nationals due to chemical fumes drifting
8 south from a Canadian smelter. In rendering a decision
9 and award for damages to the United States, the tribunal
10 established by convention between the two countries
11 observed that:

12 "In this controversy, the Tribunal is not sitting to
13 pass upon claims presented by individuals or on behalf
14 of one or more individuals by their government, although
15 the damage suffered by individuals may in part afford
16 a convenient scale for the calculation of the reparation
17 due to the state."

18 The famous case of the Factory at Chorzow also
19 supports the right of the state to pursue claims in
20 international law for damage to its nationals. In
21 awarding compensation, the Permanent Court of
22 International Justice characterised the claim against
23 Poland as one for reparation due for a wrong suffered by
24 Germany, not for a wrong suffered by the German
25 companies whose property was expropriated.

1 In a more recent case, the ICJ held that Nicaragua
2 had valid claims for reparation against the United
3 States, including a claim for the death of a Nicaraguan
4 national arising out of the United States engagement in
5 and support for military, paramilitary and economic
6 activities against Nicaragua. In its application to the
7 court, Nicaragua characterised its claim as being made
8 in Nicaragua's "own right and as *parens patriae* for the
9 citizens of Nicaragua.

10 The long and unbroken line of international legal
11 authority confirming that injuries to nationals
12 represents injuries to the state or give rise to claims
13 of the state of the injured person's nationality was
14 discussed in some detail by noted commentators on
15 international law.

16 In 1929, the jurist and scholar Dionisio Anzilotti
17 noted that:

18 "The compensation requested by a state in a case of
19 this kind is not compensation for the wrong suffered by
20 the individual but compensation for the wrong suffered
21 by the state itself."

22 Professor Brigitte Bollecker-Stern treated the
23 subject at length in a 1973 treatise, including these
24 remarks:

25 "The fundamental law can actually be expressed as

1 follows: in principle, it is always the state that is
2 the active or passive subject of international
3 obligations ... likewise, it is always the state that
4 will be invested with the right to damages, no matter
5 who the initial victim of the harm was."

6 Professor Bernhard Graefrath wrote to the same
7 effect in 1977:

8 "The claim for reparations, which encompasses all
9 damage caused by the aggression, belongs to the injured
10 state against the aggressor state. The claim also
11 encompasses damage caused to citizens and legal persons
12 of the attacked state in connection with the aggression.
13 It is for the attacked state to include this damage in
14 its claim for reparations."

15 Professor Ian Brownlie succinctly observed that:

16 "The subject matter of the claim is the individual
17 and its property; the claim is that of the state."

18 The American Law Institute has also endorsed this
19 analysis. Section 713 of the Third Restatement of
20 Foreign Relations provides that a state whose national
21 has suffered injury has certain remedies against another
22 state. Comments to the restatement amplify this
23 principle. Comment (i) to section 962 states in part
24 that:

25 "Any reparation is, in principle, for the violation

1 of the obligation to the state and any payment is made
2 to the state."

3 Comment (a) to section 602, concerning remedies for
4 environmental damage, similarly provide that remedies
5 under international law are to the injured state.

6 International law is so clear that Article 42
7 section (a) of the ILC's Draft Articles on
8 Responsibility of States for International Wrongful Acts
9 simply provides, without comment:

10 "The responsibility of the state for such acts may
11 be invoked by an 'injured state'."

12 This analysis is consistent with the Commission's
13 procedures that are provided for certain individual
14 claims. All of these claims in fact have been submitted
15 by governments on behalf of individual claimants, not
16 directly by individuals, and submission of the claims by
17 governments has been required by the Governing Council
18 in Decisions 1 and 7.

19 Nothing in the Commission's charter or practice
20 contradicts the fundamental aspect of international law
21 that claims such as those asserted in the fifth
22 instalment can be pursued as claims of the government.

23 No claim that has been processed by the Commission
24 as an individual claim has included compensation for the
25 damage from loss of life or reduced quality of life now

1 sought by these claims in this instalment of the F4
2 claims.

3 Recovery on individual claims arising from death in
4 claim categories C and D was limited to medical, burial
5 and other expenses; loss of financial support that would
6 have gone to a spouse, child or parent; and mental pain
7 or suffering on the part of the survivors, not the
8 victim.

9 Furthermore, risk assessment could not have been
10 used for individual claims for these losses. There is
11 no medical basis to identify that a particular
12 individual death was due to the smoke from the oil well
13 fires. It is only on the basis of the population taken
14 as a whole that the proven mortality effect of the fires
15 can be demonstrated.

16 The pain and suffering recovered on some individual
17 claims for nonfatal injuries is distinct from the
18 reduced health, wellbeing or quality of life in F4
19 claims. Individual pain and suffering recoveries were
20 limited to the specific circumstances set forth in
21 Decision 3 of the Governing Council and to the narrowly
22 limited amounts set forth in Decision 8. These
23 decisions did not take into account the broad
24 impairments of reduced wellbeing or quality of life.

25 Finally, in the case of Kuwait, most of the victims

1 of PTSD are unidentified because, as is common to many
2 sufferers of PTSD, they have not sought treatment.
3 These persons therefore have no individual diagnosis or
4 proof that their psychological impairment is
5 contributable to Iraq and no basis for making an
6 individual claim for their PTSD.

7 The current government claims for loss of life and
8 reduced quality of life therefore pose no risk of
9 duplication or of overlap with individual claims. No
10 compensation has been received by any individual for any
11 of these losses.

12 Indeed, the statistical aspect of these claims is
13 a final confirmation of the propriety of their being
14 brought as government claims. As Kuwait's experts will
15 show after lunch, these claims can be viewed as claims
16 for risks experienced by the entire exposed national
17 population, rather than as claims for specific deaths or
18 specific victims of trauma or illness. As claims for
19 compensation for the increased risks that Iraq imposed
20 on the entire population of an F4 claimant, the claims
21 neither belong to nor seek recovery for injuries to any
22 specific individuals. As a matter of logic and
23 practical necessity, such claims must be brought by the
24 claimant states as claims of the state.

25 We will turn to our second principle, that is that

1 loss of life and reduced quality of life are appropriate
2 subjects for compensation awards.

3 As noted, paragraph 16 of Security Council
4 Resolution 687 provides for compensation for any direct
5 loss. Article 36, section 2 of the ILC's draft articles
6 on responsibility of states for international wrongful
7 acts similarly provides that "the compensation shall
8 cover any financially assessable damage".

9 Compensable damage under Resolution 687 is not
10 limited to losses specifically itemised in the subparts
11 of paragraph 35. Decision 7 itself stressed in
12 paragraph 31 that "the following criteria are not
13 intended to resolve every issue that may arise with
14 respect to" claims submitted pursuant to Resolution 687.
15 The concept that loss of life is an injury that can and
16 should be the subject of a compensation award is
17 obviously well settled.

18 The importance of wellbeing is also well settled in
19 international law. According to Principle 1 of the
20 declaration of the United Nations Conference on the
21 Human Environment, "man has a fundamental right to
22 freedom, equality and adequate conditions of life, in an
23 environment of a quality that permits a life of dignity
24 and wellbeing". General Assembly Resolution 45/94
25 similarly noted that "all individuals are entitled to

1 live in an environment adequate for their health and
2 wellbeing".

3 Compensation for reduced quality of life has been
4 expressly recognised on the international level. The
5 International Law Commission has noted that awards of
6 compensation by the European and Inter-American Court of
7 Human Rights include "loss of enjoyment of life" as
8 a component of damage.

9 We observe that the UNEP Working Group of Experts
10 did not directly discuss recovery for diminished quality
11 of life. We submit, however, that several remarks by
12 this Group support compensation for this diminished
13 quality of life.

14 First, the experts concluded the term "environment"
15 "should tend to be broadly construed, and that a narrow
16 and exclusionary construction should only be taken if
17 a broad approach would lead to absurd or unreasonable
18 results".

19 Second, these experts urged at paragraph 47 of their
20 report that compensable "environmental damage" included
21 "being exposed to high levels of suspended particulate
22 or soot for an extended period in a manner which may be
23 unpleasant, and where it can be established that such
24 loss is significant". We respectfully submit the
25 compensation provided when soot makes life "unpleasant"

1 is plainly compensation addressed to the reduced quality
2 of life.

3 Such recovery has also been recognised increasingly
4 at the national level.

5 As one commentator noted in 1999 in analysing
6 possible relief for victims of torture and other
7 mistreatment, "many jurisdictions now recognise the lost
8 enjoyment of life, either as a separate element of
9 damages or as a component of pain and suffering.
10 Several studies support this approach to assessing
11 damages."

12 Another example of such recovery is in the civil law
13 concept of prejudice moral, which includes damage to the
14 enjoyment of life.

15 Reduced quality of life injuries are distinct from
16 earnings capacity, from loss of earnings capacity,
17 because "the activities and functions with which loss of
18 enjoyment of life is concerned are generally of
19 a nonremunerative nature". Unlike pain or suffering,
20 reduced health wellbeing is primarily the loss over
21 a period of time of function or ability to engage in
22 life activities, such as loss of interest in playing
23 sports or loss of ability to maintain a garden or
24 participate in other leisure or recreational activities.

25 In conclusion, in response to Procedural Order 4, we

1 respectfully submit that the fifth instalment claims for
2 loss of life, reduction in life expectancy and a reduced
3 quality of life in the populations of the claimants
4 countries are properly brought as government claims
5 under the clear jurisprudence of the Commission and
6 settled international law.

7 We further submit that loss of life and reduced
8 quality of life are compensable categories of loss or
9 damage.

10 Thank you, gentlemen.

11 THE CHAIRMAN: Thank you very much. It is now exactly
12 12.45. We will adjourn now and resume at 3.00 with the
13 normal statement by Kuwait. The meeting is adjourned.

14 (12.45 pm)

15 (Lunch break)

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1 (3.00 pm)

2 CHAIRMAN MENSAH: I declare the meeting open and I give the
3 floor to Kuwait.

4, Presentation by STATE OF KUWAIT (continued)

5 MR LONSBURG: Thank you, Mr Chairman.

6 Having touched before lunch on the common legal
7 issues, I will turn now to the specifics of the Kuwait
8 claim.

9 Again, just to set this in context, let me summarise
10 the three claims which are included in this instalment.
11 The first is the claims for damages related to increased
12 morbidity and mortality. As determined on the basis of
13 the monitoring and assessment activities, the final
14 amounts claimed consist of, first, \$192 million as
15 compensation for mortality that is attributable to
16 exposure to smoke from the oil well fires that were
17 ignited by Iraq; and, second, \$100 million for long-term
18 epidemiological and continued medical monitoring and
19 screening of the Kuwaiti national population.

20 The second element is for damage related to post
21 traumatic stress disorder, or PTSD. As quantified by
22 the M&A programme, Kuwait claims approximately
23 \$52 million for the costs incurred by the public health
24 system of Kuwait to treat invasion-related PTSD. As we
25 will discuss, those seeking treatment represent a small

1 percentage of those suffering from PTSD. And Kuwait
2 also claims approximately \$1.1 billion that represents
3 the decline in health-related wellbeing for the
4 thousands of Kuwaiti nationals who suffer from
5 invasion-induced PTSD.

6 The third element is the cost of treating dramatic
7 injuries caused by mines and ordnance left in Kuwait
8 following the invasion and occupation. The M&A
9 programme has determined that approximately \$2 million
10 in costs have been or will be incurred by Kuwait to
11 treat 143 specific victims of these horrific devices,
12 the treatments including, in some cases, amputations and
13 use of prostheses.

14 These submissions will focus on the factual,
15 scientific and legal aspects of the first two of these
16 claim units. The claim for treatment costs of
17 ordnance-caused injuries is highly sympathetic and our
18 failure to discuss it in detail was simply a matter of
19 lack of sufficient time to do so.

20 Let us turn first to the issue of the nature and
21 extent of the damage to public health in Kuwait as
22 a result of Iraq's invasion and occupation.

23 The State of Kuwait respectfully submits that the
24 M&A studies, led by a distinguished team of scientists
25 and physicians from Harvard University, as was noted

1 this morning by Iraq, have provided the Panel with
2 compelling evidence that there is increased morbidity,
3 that is disease, and increased mortality, that is death,
4 in the population of Kuwait.

5 Kuwait has submitted evidence on mortality and
6 morbidity risks developed through modelling and risk
7 assessment and through a recent public health survey.
8 To review the risk assessment work and the public health
9 survey, we turn to Dr Douglas Dockery. As more fully
10 set out in his curriculum vitae, Dr Dockery holds
11 a Doctorate of Science in Environmental Health Sciences
12 from Harvard University and is a Professor of
13 Environmental Epidemiology in the School of Public
14 Health at that University. He is an internationally
15 recognised researcher and an author on the health
16 effects of air pollution and air quality.

17 Presentation by DR DOCKERY

18 DR DOCKERY: Thank you. I am Douglas Dockery from the
19 respected Harvard School of Public Health, representing
20 the Government of Kuwait. There is no question that
21 Iraq's invasion and occupation of Kuwait had a negative
22 impact on the health of the Kuwaiti national population.
23 However, accurate measurements of public health effects
24 caused by Iraq's occupation requires consideration of
25 changes in other factors affecting public health.

1 Sectoral changes in health care, smoking, other personal
2 and societal risk factors may be changing independent of
3 the invasion and occupation. Therefore, our approach
4 has been to examine the effects of Iraq's occupation
5 from a number of perspectives.

6 We have critically examined alternative explanations
7 for the observed effects. In addition, we have gathered
8 new data through the monitoring and assessment
9 programme. The standard design for testing causality in
10 epidemiology is the randomised trial. Subjects are
11 randomly assigned to an exposure, and subsequent
12 development of disease compared to those exposed and not
13 exposed. We would never design a study in which people
14 were randomly assigned to experience the trauma of war.
15 Nevertheless, that is exactly what happened to the
16 Kuwait population in 1990.

17 Ministry of Finance records indicate that a large
18 fraction of the Kuwait population was out of the country
19 at the time of Iraq's invasion. Therefore, Iraq's
20 invasion presented an experiment in which Kuwaitis were
21 randomly exposed to the trauma of invasion and
22 occupation.

23 We asked if there had been any difference in the
24 death rates in the 13 years since liberation between
25 those who had been randomly in versus those randomly out

1 of Kuwait. Exhibit 1 shows the percentage mortality of
2 the population for those in versus out of Kuwait during
3 the occupation. You can see the clear indication
4 that mortality has been higher in those who were in
5 Kuwait.

6 After adjusting for gender and age, we still found
7 a 17 per cent higher death rate among Kuwaitis who
8 experienced the occupation. This increased relative
9 mortality rate raised several questions.

10 First: could we explain the excess death by better
11 definition of a location during the occupation?

12 Second: could we explain these excess deaths by
13 differences in personal characteristics between those in
14 versus out of Kuwait?

15 We conducted a public health survey of a random
16 sample of the Kuwait national population, we collected
17 data on individuals' locations between the invasion and
18 the last oil fire, and data on measures of individual
19 characteristics that present distinct mortality.

20 The first year of data collection focused on Kuwaiti
21 nationals expected to be the most likely to develop
22 chronic medical conditions, that is older adults who
23 were between 50 and 69 years of age on the eve of Iraq's
24 invasion.

25 Exhibit 2 shows the percentage survival of this

1 sample of adults versus date after liberation. We
2 divided the sample into those always in Kuwait, those in
3 and out of Kuwait and those always out of Kuwait during
4 Iraq's occupation.

5 We found that those always in Kuwait had lower
6 survival, that is higher mortality, compared to those
7 who reported that they were always out of Kuwait. Those
8 who reported being in and out of Kuwait had intermediate
9 rates.

10 After adjustment for age, gender, smoking, education
11 and personal income, we found 34 per cent higher
12 mortality among those always in Kuwait and 29 per cent
13 higher mortality among those in and out of Kuwait.

14 Increased mortality was observed immediately
15 following liberation and extended over the entire
16 13 years of follow-up.

17 All Kuwaitis in this sample had the same access to
18 the health care system, therefore differences in
19 mortality attributable to being in and out of Kuwait
20 during the occupation cannot be explained by differences
21 in the health care system, or indeed any changes in
22 societal factors over time.

23 We next asked if the excess deaths were consistent
24 with the known effects of environmental contamination
25 caused by Iraq.

1 We evaluated the likely contributions of each
2 environmental contaminant using risk assessment. Our
3 conclusion was that none of the environmental exposures
4 was large enough to account for any appreciable impact
5 on public health, except for the smoke from the oil
6 fires.

7 We estimated the number of deaths attributable to
8 the oil fires smoke, based on the published day-to-day
9 concentrations taken from the published US Department of
10 Defence modelling. To define the location of the
11 population within Kuwait during the oil fires we
12 conducted an enumeration study of a random sample of the
13 Kuwaiti national population. We determined the location
14 of each participant by day between the invasion and the
15 last oil fire. We estimated each participant's exposure
16 to the oil fire smoke from their day-to-day locations,
17 linked to the Department of Defence smoke
18 concentrations.

19 We calculated an estimated population mean smoke
20 exposure as an average of those individual estimates for
21 the surveyed participants. We estimated the number of
22 deaths attributable to the oil fire smoke by applying
23 the exposure response from the American Cancer Society
24 epidemiological study of approximately 500,000 adults in
25 the US to the population mean smoke exposure.

1 As Iraq's expert noted this morning, the oil well
2 smoke has been shown to have the same toxicity as urban
3 particles in the United States. These calculations gave
4 an estimate of 35 deaths attributable to the oil fire
5 smoke and a mortality rate of only 2 in every 10,000
6 Kuwaitis.

7 We then asked: how sensitive is this estimate to the
8 specific smoke pollution modelling? We recalculated
9 daily smoke concentrations from the oil fires using
10 a finer grid of locations across Kuwait, a finer
11 resolution of meteorology, a scientifically rigorous
12 model of the height of the plumes from the oil well and
13 the oil pool fires, and a more refined transport and
14 dispersion model. The revised estimate of mean air
15 pollution from the oil fires was two to three times
16 higher than that from the Department of Defense model.

17 We also asked whether the entire risk assessment
18 estimate was consistent with current scientific
19 knowledge. We conducted a formal elicitation of six
20 European experts in epidemiology and toxicology of smoke
21 air pollution.

22 After a review of the enumerations survey and the
23 Department of Defense smoke model calculations, each
24 expert independently estimated the number of deaths
25 attributable to the oil fires. One third of the experts

1 estimated a number below our estimate of 35, but
2 two-thirds estimated deaths greater than 35; in fact
3 substantially greater than 35. No expert gave even
4 5 per cent probability that there were no deaths
5 attributable to the oil fires.

6 These results clearly demonstrate that these experts
7 believe it is more likely than not that there were at
8 least 35 deaths attributable to the oil fires.

9 One might ask why we simply did not conduct an
10 epidemiologic study to measure the effect of the oil
11 fires smoke. First, oil pollution smoke pollution
12 produces a general rise, increase, in mortality but does
13 identify air pollution deaths. Therefore, we cannot
14 identify specific individuals killed by smoke from the
15 oil fires.

16 Second, the necessary smoke pollution measurements
17 and even the death and medical records were not
18 collected reliably or accurately in the period of the
19 occupation and the months immediately following
20 liberation when the oil fires were burning. Thus we
21 must turn to risk assessment to estimate the number of
22 deaths attributable to the oil fires smoke.

23 The risk assessment approach is sometimes criticised
24 for extrapolation of animal data to humans or
25 extrapolation of high doses to community levels.

1 Neither of these criticisms apply in this case.

2 The exposure response function was based on human
3 epidemiologic studies, not animal toxicology. The oil
4 fires smoke concentrations were high, but comparable, as
5 we saw this morning, to concentrations seen in US
6 cities. Indeed, we would argue that the risk assessment
7 provides a better estimate of the effects of the oil
8 fires smoke than a descriptive epidemiologic study in
9 Kuwait.

10 Risk assessment constructs an explicit causal
11 pathway between the oil fires smoke exposure and early
12 mortality. We used the large body of scientific
13 evidence to provide the best estimate of each element
14 within the pathway. We are confident that our estimates
15 of the effects of the environmental contamination are
16 realistic.

17 Indeed, based on our recalculation of the oil fires
18 smoke concentration and the expert peer elicitation,
19 these estimates likely underestimate the net effects.

20 On the other hand, the net number of deaths
21 attributable to the oil well fires and the environmental
22 contamination cannot explain all of the excess deaths
23 that we measured in the Kuwait national population who
24 experienced the occupation. Therefore, we examined
25 Kuwaiti nationals who were in Kuwait during the

1 occupation to identify factors associated with this
2 excess mortality.

3 Based on Dr Behbehani's 1993 work showing that PTSD
4 increased with levels of aggression-related trauma, we
5 asked participants in the public health survey to
6 describe their own exposures to violence. As shown in
7 exhibit 8, we found a higher risk of mortality in the
8 13 years after liberation associated with the highest
9 levels of exposure to violence. Those who were attacked
10 or arrested had the highest relative mortality rate,
11 followed by those who witnessed violence to family
12 members, followed by those who were in hiding for three
13 or more days -- all compared to those in Kuwait with no
14 explicit reported exposure to violence.

15 We also found that increased exposure to violence
16 was associated with increased incidence of
17 doctor-diagnosed psychological disorders, including
18 incidents of symptoms characteristic of PTSD, an
19 increased incidence of doctor-diagnosed chronic
20 gastrointestinal, respiratory and cardiovascular
21 diseases.

22 In summary, we measured higher mortality in the
23 Kuwaiti national population among those who experienced
24 Iraq's occupation. The estimates of 35 deaths
25 attributable to the oil fires is scientifically sound,

1 robust and, based on our expert peer review, likely very
2 conservative. There is strong evidence that exposure to
3 violence during Iraq's occupation has had significant
4 health effects that continue to be observed in the
5 Kuwaiti national population.

6 Thank you.

7 MR LONSBURG: Thank you, Mr Dockery.

8 Iraq observed this morning that when an individual
9 seeks compensation for harm to health under tort law,
10 the relevant standard may well be whether it is more
11 likely than not that the damage was caused by the
12 actions of the defendant. Iraq has continued to assert
13 that this standard is not met in Kuwait's claim for
14 mortality from the oil fires smoke. But Kuwait is not
15 making individual claims. Kuwait is making a claim for
16 the risk faced by its population and is asserting that
17 it is more likely than not that 35 deaths occurred or
18 may occur as a direct result of the fires.

19 Dr Dockery made reference to the elicitation study,
20 and one thing I would like to point out to you is that
21 the range of likely deaths that was given by the experts
22 actually went as high as 2,874, and the number that has
23 been used by Kuwait is only higher than two of the
24 numbers that were given and is lower than all the rest
25 by substantial numbers.

1 It is incontrovertible that Iraq deliberately and
2 wilfully set hundreds of Kuwait's oil wells on fire and
3 that Iraq is also liable for the consequences of even
4 those limited oil well fires that may be attributable to
5 the military actions of the coalition. We refer you to
6 paragraphs 27 and 28 of this Panel's second instalment
7 report in this regard.

8 The fact that the State of Kuwait has relied on
9 modelling to quantify the exposure to smoke from the oil
10 well fires should not obscure the undeniable and vivid
11 direct evidence of that smoke. Mr Ahtisaari's 1991
12 report described in horror:

13 "The thick cloud of oily dark smoke that brings
14 still uncharted perils to health."

15 This smoke, of course, being from the hundreds of
16 oil well fires.

17 Kuwait's use of risk assessment to establish the
18 existence of a compensable injury is not a novel
19 approach. Risk assessment in fact is inherent in all
20 liability under international and national law for
21 negligence. The reasonableness of the negligent action
22 or inaction is assessed by reference to, among other
23 things, the likelihood or risk of harm and the
24 anticipated severity of that harm. The common law tort
25 system also assesses liability for increased risk of

1 future injury or disease.

2 We must note on this point, directly contrary to
3 Iraq's statement this morning, that in the United States
4 claimants who can show an existing illness or disease
5 that is understood by sound medical science to be
6 a precursor of a future disease generally can recover
7 damages for the increased risk of that future disease,
8 and in some circumstances claimants without accompanying
9 symptoms can recover damages.

10 Scientific or statistical risk assessment techniques
11 similar to those used by Kuwait have also been used in
12 a number of other countries to provide compensation.

13 The USSR made annual compensation payments,
14 beginning in August 1986, to nationals exposed to the
15 Chernobyl nuclear accident, which payments were later
16 continued by the governments of Russia, Belarus and the
17 Ukraine. This compensation was based on calculations of
18 effective radiation contamination doses to which people
19 in different geographical areas were exposed as a result
20 of Chernobyl.

21 The Workers' Compensation Board in Quebec, Canada,
22 asked scientists to estimate the risk and probability of
23 causation for bladder cancer victims who had been
24 employed at aluminium production plants. The board
25 adopted a system under which compensation is provided to

1 those workers who are bladder cancer victims and who
2 show time on the job and an average exposure
3 concentration such that their predicted relative risk is
4 above a stated level.

5 A similar explicit use of statistical risk
6 assessment for compensation is found in the
7 United Kingdom's compensation scheme for
8 radiation-linked diseases. That has been adopted by
9 agreement between employers and trade unions in the
10 nuclear industry. This alternative dispute resolution
11 system uses risk assessment to determine the probability
12 that a particular cancer was caused by occupational
13 exposure to radiation.

14 Let us turn now specifically to PTSD. First, we
15 will ask Dr Jaafar Behbehani to address the impact of
16 PTSD and the compelling evidence of the dramatic
17 increase in the incidence of PTSD among Kuwaiti
18 nationals in post-liberation Kuwait.

19 As set forth in his CV, Dr Behbehani holds a
20 doctorate degree in Clinical Psychology from the
21 University of York. He is a practising clinical
22 psychologist and a member of the faculties of both
23 medicine and allied health at Kuwait University.
24 Dr Behbehani has been involved personally in the
25 treatment of PTSD since 1991 in the Kuwaiti population.

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Presentation by DR BEHBEHANI

DR BEHBEHANI: I appreciate this opportunity to present data on psychological disorders, based on the studies conducted in Kuwait.

In 1993 we assessed almost 3,000 Kuwaiti nationals, and approximately 1,500 of these adults and children were reassessed in 1998. Today, I will discuss the three most significant findings of these studies.

First, the post-aggression rates of PTSD, depression and anxiety in Kuwait are at a high level.

Second, the effect of proximity to trauma is readily apparent in the data.

Third, these aggression-related psychological effects persist.

Taken together, these results depict a compelling picture of the psychological consequences of Iraq's 1991 aggression.

In 1993, Kuwaitis exhibited a high rate of PTSD. The prevalence of PTSD was 22 per cent for adults and 15 per cent for children. International studies on war-traumatized individuals and crime-ridden communities show comparable rates. In addition, as shown in exhibit 10, there was a highly significant trend among adults for conditions that I would characterise as the "proximity to trauma" effect.

1 The highest rate of PTSD was seen among those who
2 were in Kuwait during the entire occupation and the
3 lowest rates were found among those who were always out.
4 This is consistent with the idea that those who stayed
5 in Kuwait were expected to have maximum exposure to
6 traumatic events of the occupation.

7 When, as shown in exhibit 11, the same population
8 was reassessed five years later, both adults and
9 children continued to experience high rates of PTSD.
10 For example, among adults, almost half of those
11 diagnosed with PTSD in 1993 continued to have the
12 disorder in 1998. Furthermore, the proximity to trauma
13 effect seen in adults in 1993 was again seen in 1998.

14 Finally, among adults who did not have PTSD in 1993,
15 nearly one quarter had the condition in 1998.

16 Consistent with world experience, only a small
17 fraction of those affected will seek treatment, leaving
18 the vast majority of cases untreated. While our data
19 shows a threefold increase in the number of people who
20 sought psychological treatment following the occupation,
21 this still represented a small fraction of those
22 affected.

23 There are many reasons for this, including the
24 social and cultural stigma and the fear of reliving
25 these traumatic events while in treatment.

1 There is good reason to believe that psychological
2 effects will persist well into the future. A number of
3 studies have now shown the enduring nature of these
4 effects. The veterans of the Vietnam War and those of
5 World War II continue to exhibit an elevated rate of
6 PTSD 30 to 50 years following their combat experience.
7 The persistence of PTSD is not unique to military
8 personnel but also has been seen in civilian
9 populations, exhibited to natural disasters and
10 war-related traumas.

11 The lasting effects of the original trauma are
12 perpetuated through flashbacks, dreams and memories and
13 dreams brought on by experiences of the symbolic event.

14 By extrapolation of these findings to the entire
15 Kuwaiti national population, we estimate that over
16 70,000 adults and more than 20,000 children suffered
17 PTSD due to Iraq's invasion and occupation. These
18 findings were alarming and disconcerting.

19 Prior to the events of 1990/91, Kuwait was an
20 extremely safe and peaceful society. In addition to
21 PTSD, anxiety and depression were elevated in 1993 and
22 continued to be elevated in 1998, and among adults,
23 rates were highest to those with the greatest exposure
24 to aggression-related trauma.

25 We believe Kuwait's claim is conservative in its

1 focus on PTSD for two reasons. First, Kuwait does not
2 claim any future PTSD cases. Second, it does not make
3 a claim for depression and anxiety disorders.

4 Consistent with prior clinical and scientific
5 evidence, our results in both 1993 and 1998 show a high
6 prevalence of comorbid psychological disorders,
7 including anxiety and depression in up to half of those
8 studied. These results are valid and generalisable.

9 These studies were conducted using a large random
10 sample that is representative of the Kuwaiti national
11 population. We used standardised validated instruments
12 to characterise the psychological disorders. Also,
13 because we were interested in PTSD attributable to the
14 occupation, the groups were surveyed with respect to the
15 effect of the most traumatic event that they could
16 recall related to occupation.

17 It is important that we understand the experience of
18 persons suffering with PTSD. The involuntary and
19 unwanted memories of trauma initiate a series of
20 symptoms that have a debilitating effect on these
21 individuals. They struggle with re-experiencing the
22 trauma through thoughts and nightmares. They develop
23 sleep disorders. Over time, they isolate themselves,
24 unable to trust anyone. They are unable to moderate
25 anger and irritability, targeting family members with

1 their anger and frustration. Commonly, they develop
2 physical ailments. Children have the additional burden
3 of retardation and abnormal development of milestones.

4 In my clinical work after the liberation of Kuwait,
5 I initially struggled to understand what my patients
6 with PTSD were experiencing. I knew that Kuwaiti
7 nationals had endured almost seven months of predictable
8 and random stressful events.

9 They were subject to witnessing violence against
10 their family members. They were forced to hide.
11 A large number were arrested and imprisoned, sometimes
12 for months. Many of those arrested were subjected to
13 torture. Often the torture methods led to physical
14 injuries. There was a prevailing sense of fear that was
15 induced by the possibility of something terrible
16 happening at the hands of the occupiers.

17 As I treated more and more patients I came to see
18 a clear picture. A few days after liberation,
19 I travelled around Kuwait visiting different
20 neighbourhoods and acquaintances. Many of the homes
21 that I saw looked unscathed from outside. But when
22 I entered the homes that had been occupied by Iraq's
23 forces, I came upon scenes of unimaginable destruction,
24 where even electrical outlets were removed. There was
25 real evidence of emptiness and decimation inside these

1 homes that looked fine on the outside. I have come to
2 realise that those who suffer from PTSD are more like
3 these homes. They look okay on the outside but
4 internally they are destroyed.

5 Thank you.

6 MR LONSBURG: Thank you, Dr Behbehani.

7 It should be observed that the work of Dr Behbehani
8 and his colleagues has been noted already with approval
9 by the C Panel of the Commission, which quoted at
10 page 102 in the first instalment of its report:

11 "The Al-Riggae Report documents the serious effect
12 that the invasion and occupation had on the mental
13 health of the population. A significant percentage of
14 those who experienced the invasion and/or occupation,
15 both Kuwaitis and non-Kuwaitis, were afflicted by the
16 mental injury known as post traumatic stress disorder,
17 PTSD. Not surprisingly, the prevalence of this disorder
18 was even higher among persons who suffered specific
19 traumas ..."

20 Iraq's commission of intentional acts traumatising
21 the Kuwaiti population and leading to PTSD in that
22 population was also documented by various international
23 observers, including Mr Ahtisaari and the Special
24 Rapporteur of the United Nations Commission on Human
25 Rights, both of whom described ample evidence of

1 widespread "inhuman and degrading treatment."

2 We submit that the measures of compensation proposed
3 by the State of Kuwait are appropriate.

4 We further submit that Kuwait's proposal that future
5 medical study, monitoring and screening is an
6 appropriate remedy for increased general morbidity. As
7 indicated by Dr Dockery's presentation, Kuwait's eminent
8 consultants have concluded that there is both increased
9 morbidity and increased mortality in Kuwait's population
10 as a result of the occupation. The proposed long-term
11 epidemiological study and long-term medical monitoring
12 and screening programme offer great hope of addressing
13 these increased risks in an appropriate and cost
14 efficient manner.

15 The initial claim for treatment costs was withdrawn
16 only because Kuwait did not feel that it could provide
17 definitive evidence at this time to document the extent
18 to which rates of hospitalisation have increased due to
19 the occupation.

20 Dr Rosalind Wright of Harvard will address the
21 rationale for, and the specific material benefits to be
22 derived from, the proposed long-term epidemiological
23 study and screening and monitoring programme. Dr Wright
24 holds an MD, is board certified in internal medicine and
25 received a Masters in Public Health from the Harvard

1 School of Public Health. She is an Assistant
2 Professor at Harvard Medical School and an instructor at
3 the School of Public Health. Dr Wright heads a research
4 programme which focuses on longitudinal studies linking
5 chronic stress, trauma and chronic disease.

6 Presentation by DR WRIGHT

7 DR WRIGHT: Thank you.

8 Mr Chairman and members of the Panel, it is
9 undeniable that the impact of Iraq's invasion and
10 war-related traumas experienced by the Kuwaiti
11 population merit continued research and intervention.
12 As evidenced in the public health survey, there is
13 significant increased morbidity and mortality associated
14 with being in Kuwait during the invasion, and indeed
15 a stronger relationship if while in Kuwait these
16 individuals experienced war-related trauma resulting in
17 PTSD.

18 Please note exhibit 14 as an example, which shows
19 increased incidence of myocardial infarction in Kuwaiti
20 men with PTSD. Awarding damages for long-term medical
21 monitoring will reduce these effects on both the
22 Kuwaitis who endured the ingression, as well as future
23 generations of Kuwait.

24 Psychological stress rooted in the war-related
25 trauma experienced by the Kuwaitis must be thought of as

1 a social pollutant that gets into the body to disrupt
2 biological processes that lead to increased disease,
3 just as an air pollutant is breathed in from the
4 physical environment to have such effects.

5 Chronic stress arising from war-related trauma can
6 cause long-lasting emotional, physical and behavioural
7 impairments which in turn influence disease risk, both
8 in the short term and for decades to come.

9 Known relationships between trauma, physical and
10 mental health and medical utilisation have important
11 implications for the health care system in Kuwait.
12 These individuals report more physical symptoms, use
13 more medical services, pose treatment challenges, have
14 more diagnosed physical illness and show higher
15 mortality rates than non-traumatised individuals.

16 It is because traumatised persons show high medical
17 utilisation that good screening, thorough assessment,
18 appropriate referral and empirically-based treatment of
19 such patients are essential.

20 Medical monitoring and screening can improve
21 long-term public health in a number of ways. It will
22 reduce effects on children exposed to war traumas who
23 may not manifest chronic disease for decades. Moreover,
24 past experiences, including the holocaust, suggest
25 intergenerational transmission of the effects of war.

1 PTSD has been linked to family dysfunction and physical
2 responses in the children of parents who suffer from
3 PTSD, even when the children themselves have not been
4 directly exposed.

5 While the mechanisms of intergenerational
6 transmission are not completely understood, we do know
7 that by identifying and intervening around psychological
8 morbidity in the parent, the child's health can be
9 improved.

10 Screening and providing counselling can also reduce
11 known health risk behaviours. Psychological correlates
12 related to war experiences may lead to increased adverse
13 habits among Kuwaitis, such as substance abuse, which in
14 turn contribute to chronic disease.

15 PTSD itself constitutes an ongoing stressful
16 condition. Identification and treatment of PTSD may
17 alleviate adverse effects of ongoing distress symptoms
18 and reduce long-term disease risk.

19 As an example, allocating money for medical
20 screening for cardiovascular disease in Kuwait makes
21 sense because increased rates of heart disease have been
22 seen in those exposed to aggression-related trauma. It
23 has been well established that screening for
24 cardiovascular disease is cost effective. Monitoring
25 for high blood pressure and high cholesterol are simple

1 means of reducing means of reducing cardiovascular
2 morbidity, and many treatment options are available for
3 heart disease.

4 Finally, the first phase of the pilot medical
5 monitoring and screening programme has demonstrated that
6 screening for cardiovascular disease is feasible in this
7 population. Establishing the feasibility of screening
8 for other diseases will be one of the programme's goals.

9 Epidemiology and medical screening can and should be
10 tightly linked. Information about the relationships
11 among trauma exposure, pollution and disease risk
12 developed in an epidemiological study can be used to
13 design the medical screening programme to target
14 subgroups of the population and specific diseases which
15 warrant screening.

16 The Kuwait public health monitoring assessment claim
17 as already filed specifically noted that a clinical
18 monitoring programme expected to continue for 40 years
19 was needed. Only through a co-ordinated programme of
20 clinical monitoring and public health surveys will the
21 health impacts of Iraq's invasion and its aftermath be
22 properly identified and appropriate medical treatment
23 provided. Supporting health planning needs through
24 medical screening and monitoring can ultimately minimise
25 unnecessary loss of life and reduced wellbeing.

1 Thank you very much.

2 MR LONSBURG: To explain the damage calculations that Kuwait
3 has employed in its claim in more detail and to address
4 the rationale for these measures from an economic
5 perspective, Dr James Hammitt will address the Panel.

6 Dr Hammitt has a Ph.D. in Public Policy from Harvard
7 University. He is a Professor in Economics and Decision
8 Sciences and he is the Director of the Harvard Centre
9 for Risk Analysis, both within the Harvard School of
10 Public Health. Among other responsibilities, he serves
11 on the Science Advisory Board of the United States EPA.

12 Presentation by DR HAMMITT

13 DR HAMMITT: The two largest elements of the claim for
14 health damages are for dust from the oil fires and for
15 PTSD. You may have some questions about the basis for
16 these values and why we believe they are appropriate.
17 I would like to address these issues.

18 Conceptually, damages from adverse health can be
19 divided into three types: treatment costs, lost
20 productivity and lost wellbeing.

21 The first two components, treatment costs and lost
22 productivity, are relatively easy to measure in monetary
23 terms. The third component, lost wellbeing or lost
24 quality of life, is more difficult to measure because it
25 is the part that incorporates all the things that make

1 life and health important to us that are not reflected
2 in markets.

3 What is the monetary value of the loss of wellbeing
4 associated with an increased risk of fatality or of
5 PTSD? In principle, the answer is clear: it is the
6 compensating variation, a standard economic concept.

7 The compensating variation is the amount of money
8 that compensates the individual for the increased health
9 risk, in the sense that she views herself as equally
10 well off whether she faces the increased risk and
11 receives the extra money or does not face the increased
12 risk and receives no compensation.

13 Methods to measure the compensating variation for
14 health risk have been developed over the last four
15 decades. For mortality risk there are hundreds of
16 studies conducted in many parts of the world which have
17 estimated compensating variation.

18 To estimate the monetary value of mortality risk in
19 Kuwait, we reviewed this worldwide literature and took
20 the range reported in the most recent summary, a value
21 per statistical life of \$4 million to \$9 million for the
22 United States.

23 To value risk from air pollution, the US
24 Environmental Protection Agency uses a value near the
25 centre of this range, \$7 million, based on its own

1 summary of the literature. We adjusted for the small
2 difference in income between Kuwait and the US and then
3 took the mid point, \$5.5 million, as our estimate for
4 the claim.

5 Because of monetary value of mortality risk may vary
6 across countries in response to cultural and other
7 differences, we also conducted a contingent valuation
8 survey in Kuwait to obtain a direct estimate of the
9 monetary value of mortality risk to Kuwaitis. The value
10 we obtained, about \$9 million, with a 90 per cent
11 confidence interval between \$4 million and \$20 million,
12 is consistent with our estimate from the worldwide
13 literature. This gives us confidence that the way
14 Kuwaitis think about trade-offs between mortality risk
15 and money is generally similar to the way that
16 Americans, Europeans, Asians and others think about this
17 trade-off.

18 For PTSD, there is no body of empirical estimates as
19 there is for mortality risk. Hence we turned to the
20 extensive literature on valuing nonfatal health effects
21 using health adjusted life years.

22 The concept of health adjusted life years has been
23 developed over the last three decades and has been
24 applied both to evaluate different ways a nation can
25 spend its resources to promote health and to measure the

1 burden of disease in a society.

2 Health adjusted life years start from the common
3 sense notion that the loss in wellbeing from an adverse
4 health condition depends on how long the condition
5 persists and how severely it affects the individual's
6 health.

7 To quantify the health adjusted life years
8 associated with PTSD we used the estimates developed by
9 the World Health Organisation for its global burden of
10 disease study. That study estimated the typical
11 individual with PTSD experiences symptoms for two and a
12 half years. This period is shorter than the time an
13 individual has PTSD because symptoms are experienced
14 only intermittently.

15 The severity of a health effect is conventionally
16 measured on a scale from 1, corresponding to perfect or
17 excellent health, to zero, corresponding to a health
18 state that is as bad as being dead. On this scale, the
19 World Health Organisation estimated that PTSD symptoms
20 reduce an individual's wellbeing by one tenth. Studies
21 of depression, a condition that is similar to PTSD, have
22 estimated that the severity is between 3 and 7 times
23 larger than the value we used for PTSD.

24 Multiplying the time spent with symptoms by the loss
25 of wellbeing, while symptomatic, results in the

1 conclusion that a typical individual with PTSD loses one
2 quarter of a health adjusted life year. There are two
3 approaches that can be used to estimate the monetary
4 value of a health-adjusted life year.

5 There are two approaches that can be used to
6 estimate the monetary value of a health adjusted life
7 year.

8 The first is to recognise that the value of reducing
9 mortality risk depends on the number of health adjusted
10 life years that are protected. Using the estimates of
11 the value of reducing mortality risk I have described,
12 yields the value of a health adjusted life year between
13 about \$100,000 and \$400,000.

14 The other approach draws on the use of cost
15 effectiveness analysis for determining which health
16 interventions are worth investing in and which are too
17 expensive. Threshold values of \$50,000 and \$100,000 per
18 health adjusted life year are often suggested in the
19 United States. In the United Kingdom, the value of
20 30,000 is generally cited. When a government uses
21 a threshold such as \$50,000, it reveals that it is
22 willing to pay at that rate for each health adjusted
23 life year produced in the population. An action that
24 reduces health, causes damage valued at \$50,000 per
25 health adjusted life year lost, since that is the amount

1 the government would have been willing to pay to prevent
2 that loss.

3 To be conservative, we used the smallest estimate
4 from these two approaches of \$50,000. Multiplying by
5 the loss of one core health adjusted life year yields
6 a monetary value of \$12,500 per case. We also obtained
7 a direct estimate of the value of reducing the risk of
8 PTSD in Kuwait using our contingent valuation survey.
9 Our direct estimate is nearly the same, \$15,000, with
10 a 90 per cent confidence interval between about \$7,000
11 and \$30,000.

12 None of the available methods for estimating the
13 monetary value of the lost wellbeing associated with
14 these health risks is perfect. Indeed, I have written
15 several papers pointing to weaknesses in these methods.
16 But to conclude that no compensation should be awarded
17 for lost wellbeing, either because the methods for
18 estimating the required compensation are imperfect or
19 because most of the estimates come from countries other
20 than Kuwait, is tantamount to concluding that the value
21 of lost wellbeing in this case is zero. That defies
22 common sense. It is equivalent to treating the Kuwaiti
23 people as if they are machines, valued only for their
24 economic output, net of the repair costs necessary to
25 restore their productivity when they are broken.

1 CHAIRMAN MENSAH: Mr Lonsberg, you are near the time.

2 MR LONSBURG: I have about a minute.

3 Several scholars in the fields of law and economics
4 have strongly advocated the use of the methods chosen by
5 Kuwait to assess compensation.

6 Such use is supported by Professor Dinah Shelton in
7 her book "Remedies in International Human Rights Law".

8 Judge Richard Posner has discussed the inadequacies
9 of limiting recovery in death cases to pecuniary losses
10 and pain and suffering, and has advocated the use of
11 willingness to pay methods to set damages when the
12 individual risk of death is small, as it is from smoke
13 and oil well fires in Kuwait.

14 A paper released last month by Professors
15 Cass Sunstein and Eric Posner of the University of
16 Chicago Law School advocates use of the value of
17 statistical life as calculated by economists as either
18 the legal standard or, at a minimum, as the evidentiary
19 starting point for assessing compensation for wrongful
20 deaths.

21 Although most of this authority represents national
22 law, we respectfully note that the UNEP Working Group of
23 Experts took the view that Article 31 of Governing
24 Council Decision 10 "allows for some reliance on
25 international law". It further acknowledged that in

1 exceptional circumstances, "given the recent development
2 of some of the concepts likely to be faced by the
3 Commissioners, the possibility could also not be
4 excluded of relying on the domestic law of a single
5 state".

6 In closing, Kuwait respectfully submits that the
7 current claims are precisely such a case and that the
8 Panel should follow these national leading authorities
9 in developing principles for assessing compensation for
10 these types of injuries.

11 Thank you, gentlemen.

12 CHAIRMAN MENSAH: Thank you very much. That completes the
13 presentation?

14 MR LONSBURG: Yes, sir.

15 (3.45 pm)

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1 (5.55 pm)

2 CHAIRMAN MENSAH: I give the floor to Iraq.

3 Closing presentation by REPUBLIC OF IRAQ

4 MR SCHNEIDER: Mr Chairman, members of the Panel, as a first
5 point I would like to address some aspects concerning
6 the monitoring and assessment work that has been awarded
7 and performed.

8 The claimant governments have benefited generously
9 from the funds which were provided by the UNCC at the
10 expense of Iraq for M&A studies.

11 The condition for providing such funding is that the
12 claimants described a programme, the Panel verified the
13 programme and awarded on that basis, often with
14 adjustments. Once the Panel had reached the conclusion
15 that there was a sufficient nexus between the proposed
16 activity and the environmental damage or risk of damage,
17 the Panel then, having checked the programme, made the
18 adjustment and recommended compensation for the adjusted
19 programme.

20 The awarded amounts have indeed been paid to the
21 claimants and they have spent that money. The UNCC now
22 must ensure that the M&A work which was actually
23 performed with this money which came out of Iraq's funds
24 is in conformity with the programme for which the
25 funding was awarded. It also must see to it that the

1 full results of these M&A studies are produced.

2 This latter point applies even in those cases, and
3 especially in those cases, where the M&A activity
4 reveals results which are different from what the
5 claimants who applied for it expected or hoped for, in
6 particular if they show that there was no damage or
7 damage less important than that for which the claimants
8 are seeking compensation.

9 Indeed, the Panel expressly stated that M&A activity
10 for which it recommended could be of benefit, even if
11 the result generated by the activity established that no
12 damage has been caused. That is in its first instalment
13 report at paragraph 32.

14 Iraq is entitled to require that the funds be used
15 in conformity with the rules established for this award.
16 Iraq is also entitled to have the full results made
17 available in the assessment for the quantification --
18 and assessment for liability and quantification of the
19 claims that are put before the Commission.

20 The information which is actually being provided in
21 these proceedings by the claimants indicates that in
22 quite a number of cases the claimants performed M&A
23 activities different from that for which the Panel
24 authorised funding and for which they were paid, and the
25 claimants' production of evidence in fact sometimes even

1 in the description of the activity they are performing,
2 shows that they took great liberties with the programme
3 which they were awarded.

4 I turn to Ms Lorraine Wilde to give some examples of
5 the liberties the claimants are taking.

6 Presentation by MS WILDE

7 MS WILDE: Thank you. Lorraine Wilde, speaking on behalf of
8 Iraq.

9 I would like to look at the claimants' use of M&A,
10 not just for the public health claims but also for some
11 of the natural resource claims. This is a topic we did
12 not get an opportunity to discuss yesterday, so I would
13 like to reintroduce it this afternoon.

14 In doing so, I would like to look at some aspects of
15 the M&A and what was actually awarded during the first
16 instalment and how this was intended to be used.

17 Just to remind ourselves in respect of the
18 monitoring and assessment for public health -- I do not
19 propose to address all of the claimants' M&A, just some
20 of them.

21 Kuwait was awarded almost \$21 million for public
22 health assessment and the Kingdom of Saudi Arabia
23 \$27 million. In Kuwait, this was for five awards in
24 respect of a surveillance programme for construction,
25 staffing and equipping of a data repository for the

1 health information; human health risk assessments,
2 public health survey and epidemiological survey and
3 clinical monitoring and screening -- and this was to
4 include pulmonary testing, x-rays, blood
5 tests et cetera -- and this was to be incorporated with
6 existing data in order to be able to properly examine
7 the health impact.

8 It also included an award to actually assess the
9 costs to the Kuwait public health system for dealing
10 with these additional health impacts.

11 In this respect, it was noted in the description of
12 claim 5000407 in the Panel's report recommendations for
13 the first instalment awards that the main purpose of
14 that study was to assess the costs of dealing with
15 increased incidence of various diseases.

16 For the Kingdom of Saudi Arabia, the amount was
17 higher, but the components were virtually identical.

18 Within Iran, there was a study for PTSD in three
19 groups, and there was to be some assessment of
20 respiratory and cardiovascular examinations for the
21 inhabitants are Zagros. What was actually provided by
22 Iran was some, it must be said, questionable data from
23 the studies. Much of it based on self assessments and
24 questionnaires. Kuwait has modelled some of the air
25 pollution and undertaken a risk assessment.

1 Saudi Arabia has provided some preliminary information,
2 and indeed today we have had some completely new
3 information on a risk assessment. But what is very
4 clear is that none of the claimants has provided any
5 clinical data, any cost data or epidemiological
6 analysis.

7 In respect of the natural resources M&A awards, the
8 total of the whole M&A was \$234 million, including the
9 amounts I have just mentioned for public health. I do
10 not propose to break it down for natural resources, but
11 it is quite clear that there were large awards made and
12 there are still a huge amount of studies that are
13 incomplete; for example, Kuwait's ecotoxicological study,
14 which we are still waiting for information on.

15 In the majority of cases, M&A has focused on
16 theoretical modelling rather than gathering data and
17 assessing the field results. This data has not always
18 been used -- for example, Kuwait, in its marine coastal
19 claim, has actually been collating data on shoreline
20 recovery within the marine and coastal areas but has
21 instead used data available within the literature from
22 a US situation. Other relevant data has just either
23 been ignored or has been used selectively. Kuwait has
24 also used SAVI data in its terrestrial claim, totally
25 ignoring the fact that it was perfectly able to go and

1 collect data, rather than use some assay data.

2 We have stressed the importance of M&A, and I would
3 like to quote a statement made in the joint statement by
4 the claimants during the first instalment, which said:

5 "The Commissioners cannot discover the extent of
6 harm, still less the costs of remediation, unless and
7 until appropriate studies have been undertaken."

8 This is also reflected in the Panel's comments,
9 which in paragraph 9 of their report and recommendations
10 said:

11 "The results of the monitoring and assessment
12 activities may be critical in enabling the claimants to
13 establish the existence of damage and evaluate the
14 quantum of compensation to be claimed."

15 In paragraph 31, it said:

16 "However, the Panel is of the view that compensation
17 should not be awarded for monitoring and assessment
18 activities that are purely theoretical or speculative."

19 Thank you.

20 MR SCHNEIDER: On the basis of these concerns, Iraq requests
21 respectfully that the Panel instruct the secretariat to
22 verify performance of M&A activities by the claimants
23 and identify any case where the activities actually
24 performed differ from those for which compensation has
25 been awarded.

1 Second, where such differences have occurred, the
2 amount that has been awarded and paid for the activity
3 be deducted from the compensation awarded to the
4 claimant party concerned.

5 What we have received in terms of M&A today is of
6 course something on which we cannot immediately comment;
7 we heard it for the first time today. If the Panel
8 admits that this late information be part of the
9 material that will be considered in the report by the
10 Panel, then of course we request that we be given an
11 opportunity to comment on it.

12 At this stage, I merely want to make a comment which
13 concerns an aspect which is preoccupying in this
14 material that we heard today, because what I heard --
15 and without being able to analyse it in substance --
16 I must say in addition to the many substantive points
17 that would seem to arise from it, there seems to be an
18 issue of jurisdiction with respect to the material, and
19 in particular the reformulated claims that would seem to
20 arise from what we have heard from Johns Hopkins.

21 We have heard that the health effects for which the
22 claimants seek compensation are attributable to three
23 plumes. That is the first time I hear of three plumes.
24 Of course there is the smoke plume, and then there was
25 added a dust plume, and the third one, which I had never

1 heard of in this context, is a diesel plume.

2 The claimants' Saudi Arabian experts explained that
3 the allied troops used certain trucks which are
4 particularly polluting, and he described very vividly
5 how polluting these trucks were.

6 The choice of vehicles which the allied troops based
7 in Saudi Arabia used is definitely something that is
8 exclusively in the domain of the military command of
9 these troops, and I think it would be quite absurd to
10 hold Iraq liable, in fact to admit as compensable damage
11 that arose from the particular type of vehicles which
12 the allied troops in Saudi Arabia used.

13 There is a similar problem with PTSD. Among the
14 variety of factors which the distinguished expert from
15 the Johns Hopkins University listed, I noted in
16 particular one that concerned the invasion of privacy in
17 the Saudi rural area where the allied troops were
18 stationed. He said this is quite disturbing, especially
19 in a rural community.

20 Now, Iraq is well familiar with the problem of the
21 invasion of privacy by foreign troops, and has sympathy
22 with the Saudi population in this respect. But Iraq
23 certainly cannot be responsible for the conduct of the
24 allied troops in Saudi Arabia.

25 All of this is a sign that not only the claims are

1 discredited, but also, if one should go ahead with them,
2 there are major issues in examining the jurisdiction of
3 the Panel in this respect.

4 The monitoring and assessment material that was
5 produced was intended to assist in finding the evidence
6 for what actually happened. In this respect, the
7 claimants were required to provide evidence -- I have
8 highlighted that in my opening yesterday morning, the
9 proposed evidence -- and paragraph 37 of Decision 7 is
10 quite clear about this. The paragraph says:

11 "Since these claims will be for substantial amounts,
12 they must be supported by documentary and other
13 appropriate evidence sufficient to demonstrate the
14 circumstances and the amount of the claimed loss."

15 The decision here speaks about substantial amounts,
16 and we are here in the presence of enormous amounts. If
17 one compares the evidence which has been produced and
18 which has been discussed today, one sees how far away
19 the evidence is from this requirement.

20 In fact, what we have received in these proceedings,
21 and what we have heard today, was no evidence for
22 medical conditions, no evidence for expenditures of the
23 Government, no evidence for the costs. Instead of it,
24 we received models, assumptions, reconstructions -- we
25 heard the facts are reconstructed by the experts from

1 Johns Hopkins -- reliance on authority of distinguished
2 professors, statistical calculations.

3 This is not just not good enough. It does not meet
4 the requirements before this Commission.

5 It is quite significant the way the Kuwaiti
6 delegation presented the claim. They said they have two
7 claims that are based on alleged actual costs: their
8 \$2.2 million for traumatic injuries caused by mines and
9 ordnance, these are actual damage; and \$52 million for
10 PTSD treatment costs, these are claims that should have
11 been documented and should have been discussed.

12 Now, Kuwait says they are very sympathetic, but we
13 leave them aside, and then they discuss all these risk
14 assessment and modelling claims.

15 A word on models. We have had several
16 demonstrations and arguments about the use of models.
17 What we have heard from the distinguished delegate of
18 Jordan a few minutes ago, I must reply that there is an
19 obvious misunderstanding. Iraq has no intention to
20 suggest that a restriction should be imposed on this
21 Panel in the type of evidence that the Panel itself or
22 its experts can use.

23 We did not say that models cannot be used for
24 evidence. In fact, we used ourselves and spent quite
25 some efforts in developing a model for the smoke plume.

1 So it is not at all our intention to rule out models as
2 part of evidence.

3 What we did say was that modelling and risk
4 assessment cannot be used for establishing whether
5 damage occurred.

6 The claimants must show that actual damage occurred
7 and cannot just show by models that there is a risk of
8 damage. This is our objection. We say that
9 compensation can be awarded only for damage that
10 actually occurred and not for some risks of damage that
11 may or may not occur. The person having suffered the
12 damage must be identified, and causation and the
13 occurrence of damage must be established.

14 The causation, the amount of the damage, these are
15 matters for which then other evidence can be resorted
16 to, and for instance modelling can be used. This is
17 exactly what the E1 Panel, to which the representative
18 of Jordan referred, what this Panel did. The Panel
19 first determined that oil had been lost from the wells
20 and that Iraq was liable for this loss, and then the
21 Panel at this stage only resorted to modelling and
22 determined how much oil was lost and did it well by
23 well. So that is quite different from what the
24 claimants are doing when they use modelling in order to
25 determine that any damage occurred at all.

1 The Panel in the E1 did not award compensation on
2 the basis of a risk of oil having been lost or a risk of
3 the possibility of oil having been lost.

4 I would like to make some comments on what we heard
5 on the substance of the claims. The first thing that
6 strikes when we look at the Kuwaiti claim is that the
7 same body which presented the claims some years ago for
8 Kuwaiti citizens, the PAAC, presented claims not
9 espoused but presented claims of Kuwaiti citizens where
10 the value of a Kuwaiti was assessed at between \$5,000
11 and \$10,000, and they got this money where the Panel
12 found them to be assessable, in the B panels.

13 Now the PAAC comes to this Panel with a claim for
14 \$5.5 million per life of a Kuwaiti. We assume that the
15 \$5,000 or \$10,000 which were awarded in the B panels
16 were actually paid to the relatives of the victims who
17 claimed.

18 Concerning the \$5.5 million, Kuwait tells us they do
19 not know who are the persons -- there is nobody whom
20 they can identify as individuals, they cannot identify
21 the concerned individuals, so we do not know who gets
22 the money.

23 Apparently, this is a claim for a windfall profit.

24 On the claim for morbidity and mortality, you will
25 have seen that much of the demonstration relied on the

1 difference between in and out, the two cohorts. The
2 entire claim rests on the assumption that these two
3 populations, these cohorts, are identical in terms of
4 their health condition. No evidence has been shown that
5 this is actually the case, and there are serious reasons
6 to believe that the two groups are not the same, and
7 those who stayed behind are not of the same health
8 conditions. We have heard that. But this is something
9 we have heard no reply to.

10 With respect to the PTSD claim, we find quite
11 surprising differences. If you look on this slide you
12 see how treatment costs of the population in Kuwait is
13 \$52 million, where the occupation occurred, whereas in
14 Saudi Arabia it is \$900 million, and in Iran, where no
15 occupation took place, they still have \$43 million.

16 I also point out the enormous difference between
17 Iran and Kuwait concerning the loss of productivity.

18 The claim for monitoring and screening which Kuwait
19 makes is quite surprising. They have got a lot of money
20 for monitoring and assessment, and now they come again.
21 Simply I would say this is not a repetitious process --
22 the claim for monitoring and assessment -- and is
23 exhausted.

24 A word on diplomatic protection and the UNCC.
25 Yesterday, Dr Heiskanen explained that the two are

1 different. This morning, I explained that the two are
2 different. Surprisingly, earlier this afternoon, before
3 the break, we heard that the claimants still failed to
4 see the proper distinction between the two approaches in
5 the UNCC and diplomatic protection. I shall ask
6 Professor Sands to give it a try, whether he succeeds in
7 explaining this in a way that is understood.

8 To make it clear, our position is that the UNCC is
9 not diplomatic protection. Nevertheless, both in
10 diplomatic protection and before the UNCC there must be
11 a claim for a specific damage. The claimants said they
12 cannot identify specific individuals having suffered
13 a damage and that they claim for risk. This is not
14 a compensable claim, a claim for risk, and I turn over
15 to Professor Sands.

16 Presentation by PROFESSOR SANDS

17 PROFESSOR SANDS: Mr Chairman, before turning to a few legal
18 points by way of conclusion, I wonder, with your
19 permission, whether I could make a few personal
20 observations which are not, if you like, on strict
21 instructions from the Government of Iraq but which I am
22 authorised by them nevertheless to address. They are by
23 way of reality check.

24 As you know, Mr Chairman, I have appeared in
25 numerous international courts and tribunals, the

1 International Court of Justice, the Tribunal for the
2 Rule of the Sea, Permanent Court of Arbitration, ICSIT
3 and many others, and I have appeared with great
4 privilege before you in a number of cases. I am aware
5 that in each type of case there are always claims for
6 damages, including damages of the kind that have been
7 discussed this afternoon. In each case, the
8 responsibility of the lawyers preparing the dossier is
9 to provide hard evidence of damage.

10 I sat through this afternoon and I must say I had to
11 pinch myself at times because, 13 years after the event,
12 we were presented today with not a single piece of
13 evidence, not a shred of evidence, to support any one of
14 the claims in terms of hard evidence, in terms of
15 individual statements, in terms of construction costs of
16 post traumatic stress centres, which one would have
17 thought, given the concern governments have for the
18 issue, they might have constructed in the last 13 years,
19 the costs of operating those centres, the hospital
20 bills, the additional costs of medicines which the
21 states would have provided.

22 These are all of the things that I would have asked
23 my client state to produce and which I assume, being the
24 good lawyers that these representatives are, they would
25 have done. One can only assume that there are none,

1 that there is absolutely nothing to support these claims
2 in terms of the traditional standards of evidence which
3 are required.

4 We heard this afternoon a great deal of extremely
5 interesting academic contribution. I do not for
6 a moment want to belittle the good faith and the
7 integrity of the many people in this room and around the
8 world who have spent a great deal of professional time
9 and effort in producing this material. But we are not
10 at an academic conference. This a claim commission. It
11 is incumbent upon claimants to provide hard evidence.

12 Once they have provided hard evidence, then they can
13 provide models, as Mr Schneider said, to supplement and
14 to indicate quantifications. There is no a priori
15 exclusion of the types of assessments, the types of
16 studies, but they provide support to hard evidence; they
17 are not a substitute for hard evidence.

18 I think, by way of reality check, one has to
19 recognise that this type of claim made in any other
20 international forum would not get past the door of the
21 courtroom. It may be that I, as a newcomer in this
22 process, have somehow entirely missed the point about
23 what the Security Council and the Governing Council
24 intended to do. But I have always proceeded on the
25 basis, as an academic, that this was a claims process

1 and the claimants have to document in great detail the
2 claims they are going to make.

3 What we have heard today -- and I say this with
4 great respect -- gets extremely close to abuse of
5 process, because after 13 years, on matters which we all
6 accept, speaking at a personal level, had a huge human
7 cost for many people in many countries, those people are
8 entitled, if you like, to have those claims presented in
9 as strong a possible way. I find it astonishing that
10 after 13 years not one of these countries is able to
11 produce a single additional bill of expenditure which
12 they have incurred in relation to the public health
13 impact that they claim, which they can put to you.

14 I think, Mr Chairman, members of the Commission,
15 that speaks very loudly indeed about what is actually
16 happening in this process.

17 Turning to a few conclusory legal points --

18 CHAIRMAN MENSAH: Mr Schneider, you have only two and a half
19 minutes.

20 PROFESSOR SANDS: Firstly, diplomatic protection. We all
21 know what diplomatic protection is; it is the espousal
22 by a state of a claim brought on its own behalf and on
23 behalf of its nationals. The UNCC process is not
24 diplomatic protection, it is the process of submission
25 of individual claims on behalf of those individuals, not

1 espousal of those claims.

2 One concluding point, just putting up the slide to
3 show my good friend from Kuwait that we too can put up
4 quotations. I heard this morning what I thought was an
5 accurate quotation of really what this claim is about.
6 Kuwait said:

7 "These claims can be viewed as claims for risks
8 experienced by the entire exposed national population
9 rather than as claims for specific deaths or specific
10 victims of trauma or illness."

11 That was a very telling statement because it
12 indicated that there is no hard damage at issue here; it
13 is about risk.

14 If I can refer you in conclusion to the ICJ judgment
15 in the Gabcikovo-Nagymaros case, at paragraph 54 of the
16 judgment the court made it very clear that there is
17 a distinction to be drawn between peril and risk on the
18 one hand and material damage on the other. There is no
19 known international claim to cover future or past risk.
20 This would be a first.

21 With those words, I conclude. Thank you.

22 MR SCHNEIDER: My concluding remark starts with the
23 observation or suggestion which the distinguished
24 delegate from Syria made this morning, when he spoke
25 about the participatory approach which should be adopted

1 in the resolution here, in the resolution of claims or
2 damage or cultural heritage on the restoration. This is
3 indeed the approach which Iraq has recommended since
4 quite some time for any future action for which the
5 Panel will find that compensation is awardable.

6 We, of course, are aware that the Panel is deciding
7 compensation and not future action, but the Panel has
8 made adjustments to many of the programmes, and if it
9 awards any future compensation for a specific programme,
10 we respectfully request that this aspect be brought to
11 bear.

12 In the light of the many observations and objections
13 we have presented in the last few days, we conclude that
14 there is no legal basis for compensation in these
15 claims, and if there were any compensation specifically
16 recommended for Saudi Arabia and Iran, the extraordinary
17 gains of these two countries should be brought to bear
18 and be adjusted accordingly.

19 We conclude that all the claims on this basis must
20 be rejected.

21 I have merely a few procedural requests, if I can
22 just read them into the record. Is that admissible or
23 would you like to have them printed out?

24 CHAIRMAN MENSAH: I would like to have them printed out,
25 because we do not have the time. Thank you very much.

1 I am sorry, but we are very tight and we want everybody
2 to have the opportunity to speak at the time when the
3 interpreters are available to interpret.

4 I now give the floor to Kuwait for their final
5 comments.

6 Closing Presentation by STATE OF KUWAIT

7 MR LONBERG: Thank you, Mr Chairman. I will first talk to
8 specifics of some of the claims and respond essentially
9 to matters of the record for inaccuracies and comments
10 that have been made today by Iraq or its
11 representatives, then I will discuss generally the fact
12 that these are environmental claims.

13 First, as to the issue of air pollution modelling,
14 UNCC panels in many different claims have accepted
15 modelling as an accepted and appropriate analytical tool
16 for measuring impact and damages. This was noted by
17 Iraq. We are disappointed that Iraq did not present at
18 this oral proceeding the results of the air pollution
19 modelling that it presented to the fourth instalment
20 oral proceeding. That model essentially confirms the
21 air pollution concentrations that were demonstrated in
22 the modelling performed for Kuwait by Harvard.

23 This modelling evidences that Kuwait's population
24 was exposed to unhealthy air that is associated with
25 mortality. While Iraq now attacks Kuwait's use of air

1 pollution modelling to demonstrate excess mortality from
2 exposure to particulate matter generated by the burning
3 oil wells, Iraq itself used air pollution transport
4 modelling in its fourth instalment presentation to argue
5 against the claims of Iran and Syria for damages from
6 oil fire deposition. Iraq's technical consultants in
7 that instalment said:

8 "Global regional models are an international
9 standard. They are used all over the world to assess,
10 to understand, to predict what is going on with air
11 pollution."

12 The air pollution modelling that Iraq conducted
13 yielded results that their modellers compared with the
14 results of Husain et al in 1995 and concluded that the
15 results of their modelling were consistent, but showed
16 concentrations of soot one fifth as high as Husain.
17 Harvard's results were also comparable to Husain in
18 dispersion pattern, but are only about one eighth as
19 high.

20 We have not had the opportunity to review the
21 details of Iraq's modelling efforts because they have
22 not been provided to us. It would appear, however, that
23 Iraq's modelling showed much higher contributions from
24 soot than the added 6 per cent that was referenced this
25 morning.

1 The spikes show the increased deposition in Kuwait,
2 which Iraq indicated ranged from 3 to 25 times higher
3 than background during the fourth oral proceeding. Even
4 allowing for the differences between Husain's modelling
5 at PM10 and Harvard's modelling at PM3.5, the results of
6 Iraq's own air modelling from the fourth instalment
7 completely confirmed the legitimacy of modelling in the
8 Harvard results.

9 We do note with interest, however, that they do
10 suggest that the Harvard model most likely
11 underestimates the concentrations to which the Kuwaiti
12 population was exposed. Thus, the resulting 35 deaths,
13 if used as a basis for compensation, likely
14 underestimate the mortality effect according to Iraq's
15 own air pollution modelling from the last instalment.

16 Let us talk now specifically about mortality from
17 oil smoke. Iraq claims that Kuwait's claim for
18 mortality from oil fire smoke should be dismissed
19 because "it does not adequately deal with causality", it
20 is based on modelling, is purely speculative and "is
21 highly uncertain".

22 As our renowned experts, particularly Dr Dockery,
23 established, these assertions are simply inaccurate and
24 in total disregard of the results determined by what
25 Iraq itself referred to as a very distinguished

1 university group and scientists of great distinction.

2 The foundation for Kuwait's claim for mortality is
3 an epidemiological analysis of all deaths since the date
4 of liberation, which finds substantial excess deaths, on
5 the order of approximately 500, among those who were in
6 Kuwait during the invasion and occupation.

7 There is nothing theoretical about counting deaths.
8 The excess mortality is based on real numbers, not
9 a theoretical construct. However, rather than claiming
10 all of these deaths, consistent with the highly
11 conservative approach employed by Kuwait with respect to
12 all these claims, Kuwait seeks damages for only
13 35 deaths from the oil fires smoke and uses risk
14 assessment to determine this number.

15 Had relative measurements been available during the
16 entire period, Kuwait might have relied on those. That,
17 unfortunately, was impossible since Iraq had dismantled
18 Kuwait's environmental monitoring network, stolen and
19 damaged its scientific equipment and extensively mined
20 the country. Iraq was able to restore the air pollution
21 monitoring network by early May 1990, but by that time
22 the fires had been burning for over three months.

23 PM10 measurements taken from this time until the
24 fires were extinguished indicate average values well
25 above 200 micrograms per cubic metre. Rather than

1 claiming the impact of those measured amounts, Kuwait
2 seeks compensation only on the basis that on the order
3 of 10 micrograms per cubic metre of PM2.5 was due to the
4 oil well fires. The HYSPLIT model used by Kuwait had
5 been used previously by the US Department of Defense to
6 estimate the exposure of US troops, and was peer
7 reviewed.

8 Iraq goes on to claim that Kuwait's modelled results
9 are inconsistent with the findings of no detectable
10 effects on US and British troops who served in the
11 Gulf War. This comparison has no merit.

12 Firefighters and soldiers are young and healthy
13 individuals, by definition, wear state-of-the-art
14 protective equipment and are trained to manage trauma
15 and danger. The exposed Kuwaiti population had none of
16 these advantages, and obviously includes the elderly and
17 the frail.

18 Let us turn to PTSD and wellbeing. Iraq argues that
19 Kuwait's claim for PTSD is unproven because of technical
20 defects in the method of conducting the 1993 survey.
21 The administration of the CAPS as a self-report measure
22 was validated in this population by selecting a random
23 sample of subjects completing the self-report version
24 and having a psychiatrist administer a structured
25 interview version of the CAPS over that sample.

1 This exercise evidenced a high agreement between the
2 self-report and the psychiatrist-administered
3 evaluation. Moreover, the self-report CAPS scores were
4 significantly correlated with the impact of events
5 scale, again confirming that the CAPS is a reliable
6 instrument of assessment of PTSD.

7 Perhaps equally as significant, the United Nations
8 appointed an independent PTSD expert to review Kuwait's
9 work in this area. That expert found the same
10 convergent validity between CAPS diagnosis and
11 psychiatrist diagnosis by structured interview.

12 This independent expert appointed by the UN is
13 a former president of the International Society for
14 Traumatic Stress and is a winner of the Laufer Award for
15 his work in this area of trauma. In his report to the
16 UN, this expert wrote that his process of evaluation of
17 Kuwait's investigation:

18 "... led to the conclusion that the study was a high
19 quality scientific investigation."

20 Finally with respect to PTSD, Iraq has argued that
21 Kuwait has overestimated the number of PTSD cases. The
22 uncertainties in the claim have been recognised and
23 managed in a specific way by making conservative choices
24 to avoid overstatement of the claim.

25 Other approaches could be taken to address

1 uncertainties. For example, the value of \$50,000 per
2 health adjusted life year was used by Kuwait, but
3 reasonable estimates, as documented by Dr Hammitt, range
4 as much as eight times higher. The value of one tenth
5 was used to estimate the loss of wellbeing, but values
6 for depression, a condition noted to be similar to PTSD,
7 range from three to seven times greater.

8 Iraq provided an alternative estimate of the number
9 of cases half as large as the value we used. Valuing
10 Iraq's estimate of the number of cases with the midpoint
11 of these ranges would yield a claim of \$4 billion, which
12 is obviously four times larger than Kuwait has in fact
13 claimed. Adjusting just one of these factors revealed
14 an estimate of claim of \$2 billion.

15 The conclusion that this clearly demonstrates is
16 that the claim value asserted by Kuwait is reasonably
17 conservative and scientifically defensible.

18 We will now turn to the principle that these damages
19 are appropriately addressed by this Panel as
20 environmental damages.

21 As we have noted, paragraph 16 of Security Council
22 Resolution 687 stated broadly that Iraq was liable for
23 any direct loss, expressly including environmental
24 damage. Paragraph 35 of Governing Council Decision 7
25 echoed Resolution 687 and further broadly provided that

1 these payments were available with respect to direct
2 environmental damage.

3 Further, paragraph 31 of Decision 7 stressed that
4 the criteria spelt out in the Decision were not intended
5 to be exclusive or to resolve all the issues that might
6 arise with respect to claims pursuant to the resolution.
7 Thus, as we noted yesterday and earlier today, this
8 Panel expressly concluded in paragraph 23 of its second
9 instalment report that:

10 "A loss may be compensable even if it does not arise
11 under any of the specific subparagraphs of paragraph 35
12 of Governing Council Decision 7.

13 This morning, Iraq suggested that express reference
14 to recovery for monitoring the public health effects in
15 paragraph 35(d) called for the Panel to evoke ejusdem
16 generis. No authority was offered for this suggestion.
17 We would ignore that none was or could be offered, due
18 to the critical fact that the language of Decision 7 and
19 this Panel's second instalment report showed that these
20 maxims of construction simply are not to be applied to
21 limit paragraph 35.

22 Public health related damages properly belong within
23 the type of damages contemplated by paragraph 35 of
24 Decision 7 and are a logical extension of
25 paragraph 35(d), which explicitly designated the

1 monitoring and assessment of public health as a category
2 of environmental damage. Damage to the environment
3 includes damage to all living things, including humans.
4 The intimate association between health and the
5 environment is particularly true for the claims for
6 damages for mortality. Those result directly from
7 Iraq's pollution of the environment, particularly the
8 sabotage of Kuwait's oil wells.

9 We respectfully submit that the diminished quality
10 of life damages due to PTSD also fall under the umbrella
11 of environmental damage, which is covered by
12 Resolution 687 and paragraphs 31 and 35 of Decision 7.

13 In its first instalment report recommending compensation
14 for the M&A claims related to public health, this Panel
15 drew no distinction between the health effects
16 attributable to environmental factors and health effects
17 attributable to nonenvironmental factors.

18 The first instalment report specifically authorised
19 funding for surveillance of the traumatic stress
20 experienced by the population. Although we recognise
21 the Panel's caution that a first instalment report does
22 not reflect a decision on the merits of the substantive
23 claim, we also note that the Panel expressly declined to
24 authorise M&A funds for work that did not appear to be
25 substantially linked to a compensable damage.

1 As indicated on its website, the WHO has broadened
2 its understanding of environmental health to comprise
3 those aspects of human health that are determined by
4 physical, chemical, biological, social and psychosocial
5 factors in the environment. The inclusion of social and
6 psychosocial factors in the concept of environmental
7 health is buttressed by growing scientific literature
8 which conceptualises both physical and social factors as
9 a source of environmental demands contributing to
10 psychological stress experienced by populations living
11 in a particular community, culture or context.

12 Dr Wright discussed this concept this morning.

13 The European Council Directive on the Assessment of
14 the Effects of Certain Public and Private Projects on
15 the Environment, adopted by the Commission of the
16 European Community in 1985, recognised that the
17 environment includes the human environment and not
18 merely the natural physical world. This directive
19 requires an environmental impact assessment of a covered
20 project's effects on the environment "in order to take
21 account of the concerns to protect human health and to
22 contribute by means of a better environment to the
23 quality of life. The EIA process is intended to
24 identify, describe and assess the effects of the project
25 on, among other things, human beings."

1 In interpreting the 1969 Civil Liability Convention
2 in a case involving a claim by the Italian Government
3 for damage arising out of a maritime oil spillage from
4 the tanker Patmos, the Court of Appeal of Messina found
5 the integral role of health as part of the environment,
6 stating:

7 "The environment must be considered as a unitary
8 asset separate from those of which the environment is
9 composed and it includes natural resources, health and
10 landscape."

11 The right to the environment belongs to the state in
12 its capacity as representative of the collectivities.
13 At the time of Resolution 687, Article 24 of the
14 International Law Commission's Draft Articles on
15 International Liability for Injurious Consequences
16 Arising out of Acts not Prohibited by International Law
17 provided that harm to persons, including of course death
18 or injury to the health or physical integrity of persons
19 arising as a consequence of harm to the environment
20 would be compensated as part of the recovery for harm to
21 the environment.

22 We acknowledge that the UNEP Working Group also
23 stated --

24 CHAIRMAN MENSAH: I do not want to interrupt you, but you
25 have only one minute.

1 MR LONSBURG: We acknowledge that the UNEP Working Group.
2 also stated that since injury to persons or property is
3 included in other heads of damage, it should not be
4 included by the Compensation Commission under
5 environmental damage.

6 We submit that the context of this statement shows
7 that it is not directed to the current claim. The UNEP
8 Working Group report appears to have been focused on
9 injury to individual persons rather than on the health
10 related losses of the state. We would assert that this
11 statement in the Working Group report was addressed to
12 the fact that injury to persons could be claimed under
13 other heads of damage.

14 This morning, Iraq repeated the theory that there
15 has to be a positive authorisation in Resolution 687 for
16 these claims. We will not belabour the point that we
17 take, and we believe the Security Council established
18 a very different view of the resolution's determination
19 that Iraq is liable for any damage.

20 The claim for public health damages by Kuwait is
21 properly brought by Kuwait as a claim of the state.
22 This morning the representatives of Iraq appeared to
23 suggest that the existence of individual claims in the
24 UNCC means that there is no provision for diplomatic
25 protection within the UNCC.

1 As we discussed this morning, diplomatic protection
2 has been a settled principle of international law and we
3 submit it is clear that nothing in the charter or
4 procedures of this Commission has abolished that
5 principle.

6 This morning, Iraq told the Panel that it should
7 follow the lead of international tribunals and not
8 legislate new law. Kuwait does not ask the Panel to
9 legislate. We would assert, however, that Iraq has
10 tried to unduly restrain the Panel in its assessment of
11 other rules of international law under Article 10 of
12 Decision 301.

13 The Panel is, of course, not a judicial tribunal.
14 As we discussed in detail yesterday and noted this
15 afternoon, the UNEP Working Group supported in various
16 ways the Panel's right and ability to take an
17 open-minded view of sources of law, particularly
18 national law.

19 In closing, the State of Kuwait is sensitive to its
20 place as a member of the international community and has
21 no desire to open any Pandora's box of unwarranted
22 liability. By the same token, as Iraq continues to
23 ignore, the compensation recommended by this Panel will
24 take its place in a very specific set of international
25 precedents -- those of compensation against the state

1 for a deliberate initially wrongful act for which
2 liability is determined specifically by Resolution 687.

3 The UNEP Working Group and many other international
4 law scholars have noted that this context can and should
5 be taken into account in studying the form of or
6 approach to the compensation. We urge the Panel to keep
7 the nature of Iraq's wrongful acts in mind, not to
8 punish Iraq, but to implement the Security Council's
9 commitment to provide full and fair compensation with
10 respect to these claims now before you.

11 Mr Chairman, as I indicated to you this morning, we
12 have all been at this process now for many years. If we
13 may ask the Panel if Dr Asem, who has directed this
14 project for PAAC for 13 years, could have one minute,
15 this will be his last chance to address the Panel and he
16 has a few general closing comments he would like to
17 make, if that would be appropriate.

18 CHAIRMAN MENSAH: It must be very short.

19 DR ASEM: Thank you, Mr Chairman.

20 Sir, as a conclusion of the statement by the State
21 of Kuwait at this meeting, which is the last meeting for
22 environmental claims, we would like to extend our thanks
23 and appreciation for the great effort that you have
24 employed in order to study all of the claims within the
25 said timeframe.

1 At the same time, Kuwait would also like to extend
2 its thanks to the secretariat and to the collaborators
3 who have assisted the Committee in its work, and the
4 technical support and the data that have been provided
5 related to those environmental claims.

6 Despite the fact that 13 years have elapsed since
7 those environmental damages were sustained by our
8 region, since they were first presented earlier, Kuwait
9 has always extended its support to the Committee, and we
10 have received a number of field visits and a number of
11 working groups and we have harnessed all possible
12 resources in order to assist the Committee in
13 discharging its duties.

14 Kuwait has committed all its environmental
15 monitoring and assessment resources not in order to
16 explain or to maximise the awards. We have adopted
17 scientific methods in evaluating and estimating all of
18 those damages and the means for treating also the M&A
19 studies which have been recommended by this
20 distinguished Panel and the Committee that have been
21 accepted. They have been implemented according to the
22 resources that were available in order to provide the
23 data and in order to evaluate the methodologies that
24 could be utilised in order to rehabilitate the
25 environment according to the terms of 132.

1 Kuwait has sustained great damages, including
2 environmental, which has affected all segments of our
3 life. It is our duty, according to the terms of the
4 Security Council resolutions, to advance claims for all
5 the grave damage that we have sustained. This is
6 something which does not conflict in legal terms with
7 the feelings of the Kuwaiti people and our sympathy and
8 empathy with the people of Iraq, which has laboured for
9 a long time under the unjust regime, and we understand
10 the great effort that has been deployed by the Iraqi
11 side, especially during the third and fourth
12 instalments. All of this has enriched all of the
13 technical, scientific and legal knowledge.

14 Kuwait looks forward to co-operating with the
15 Government of Iraq and other neighbouring countries in
16 order to rehabilitate our region and in order to
17 institute the appropriate and constructive co-operation.

18 Finally, sir, I would like to address you on behalf
19 of the Government of the State of Kuwait and the people
20 of Kuwait. We would like to extend to you our great
21 thanks for the excellent work that has been done by the
22 committee and by the Panel.

23 The State of Kuwait would also like to thank the
24 other states which have submitted claims, and for the
25 co-operation extended to us to support those

1 environmental claims.

2 I thank you, sir.

3 CHAIRMAN MENSAH: Thank you very much indeed for those kind
4 words. I am sure that everyone here will appreciate
5 their sentiments.

6 I now call on the Kingdom of Saudi Arabia for their
7 final comments.

8 (End of transcript)

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