



Nuclear Free Local Authorities Steering Committee

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MEDIA ADVISORY – for immediate release, 5th May 2011

- **Nuclear Free Local Authorities supports joint complaint to BBC over Chernobyl documentary**
- **NFLA welcomes WHO Chief's remarks over commissioning an independent study over radiation effects**

The Nuclear Free Local Authorities (NFLA) has submitted a joint letter of complaint in conjunction with a number of other influential organisations to the BBC over a Radio 4 documentary on the 25th anniversary of the Chernobyl disaster (1).

The complaint has been signed by the NFLA, Scientists for Global Responsibility, Medact, Nuclear Consulting Group, CND, Chernobyl Children's Project UK and Chernobyl Children's Lifeline. It refers to a BBC Radio 4 documentary – 'Fallout: the Legacy of Chernobyl' - presented by Nick Ross, which was broadcast on April 26th and May 1st.

The groups contend the documentary was insufficiently balanced and did not interview distinguished UK scientists who would have given a more nuanced view of the 'limited' effects of the Chernobyl disaster, as claimed in the documentary. The complaint provides a detailed critique of the documentary and its lack of balance and inaccuracies by the former CERRIE (2) Secretariat and independent Consultant on radioactivity in the environment, Dr Ian Fairlie (it is attached below).

Dr Fairlie identified five main defects and a number of factual inaccuracies with the documentary:

- A lack of balance to the point of apparent bias.
- A mismatch between what interviewed scientists said and the programme's statements which followed
- A failure to appreciate important distinctions in radiation risks.
- The downplaying of radiation risks by stating that increased cancer incidences were mere "predictions", as if they were unreliable. However increased cancers from radiation are estimates just as increased cancers from tobacco smoke are estimates.
- A lack of evidence for the programme's main conclusion that fear of radiation and distrust of official statements are more damaging than radiation itself. Indeed the programme contains much evidence to the contrary.

The letter of complaint is submitted at a time when the Chief of the World Health Organisation (WHO), Margaret Khan, has said independent research on the health impact of radiation must be pursued without being influenced by the nuclear industry (3). The pledge came after a meeting with the NGO 'Independent WHO' which have been campaigning for years over the cooperation agreement on radiation research between the WHO and the International Atomic Energy Authority (IAEA). Mrs Khan said she would also look into why the proceedings on a meeting about radiation and health between experts from the WHO and the IAEA in 2001 have never been published.

The WHO statement says:

"WHO agrees in principle that research should continue on the health effects of radiation and the research should not be influenced by industry".

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The NFLA welcomes this statement and encourages the WHO to recruit a wide spectrum of specialists to conduct the research on the Chernobyl disaster, low level radiation and now on the potential health effects of the Fukushima incident as a matter of urgency.

NFLA Chair Bailie George Regan says:

“I was very disturbed with what I see as an apparent lack of balance with this documentary, which seemed to me to be packed with supporters of nuclear power in its downplaying of the effects of Chernobyl. A full, comprehensive, independent study of the health effects of Chernobyl, low level radiation and Fukushima needs to be undertaken by the WHO and should be completely free from nuclear industry control and influence. Our complaint to the BBC needs to be considered seriously and more balanced programmes on all aspects of nuclear power should be produced as a matter of urgency.”

Ends

For interviews contact Sean Morris, NFLA Secretary on 07771 930196.

Notes for editors:

(1) The text of the complaint is as follows:

BBC Complaints Unit
PO Box 1922
Darlington, DL3 0UR

4th May 2011

Dear BBC Complaints Unit,

FALLOUT – THE LEGACY OF CHERNOBYL, BROADCAST ON 26TH APRIL AND 1ST MAY, BBC RADIO 4

I would like to bring to your attention a joint complaint made by the Nuclear Free Local Authorities (NFLA), Scientists for Global Responsibility, Medact, the Nuclear Consulting Group, the Campaign for Nuclear Disarmament, the Chernobyl Children’s Project and Chernobyl Children’s Lifeline in reference to the content of the above Radio 4 documentary, which was presented by Nick Ross.

I attach below (as Appendix 1) a detailed critique of the programme by the independent consultant on the environment, Dr Ian Fairlie, which all the above mentioned groups fully endorse and support. For your information, Dr Fairlie was a member of the Committee Examining Radiation Risks of Internal Emitters (CERRIE). He has provided, on the request of the groups, several substantive points and genuine concerns about the programme.

All the above mentioned groups were very concerned about the findings of this important documentary, on what was the 25th anniversary of the Chernobyl disaster, and feel the programme did not adequately provide the required balance expected from the BBC.

I would appreciate if you could bring the comments made by Dr Fairlie to the attention of the programme makers, senior editorial staff on BBC News, the Controller of BBC Radio 4, and the BBC Trust. I would appreciate if you could send a full response to this letter for the attention of the

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NFLA Secretary, Sean Morris (s.morris4@manchester.gov.uk), who has co-ordinated this response on behalf of the above mentioned groups.

Yours sincerely,

Baillie George Regan, Chair of the UK and Ireland Nuclear Free Local Authorities

Stuart Parkinson, Executive Director of Scientists for Global Responsibility

Marion Birch, on behalf of Medact

Dr Paul Dorfman, on behalf of the Nuclear Consulting Group

Professor David Webb, Chair of the Campaign for Nuclear Disarmament

Linda Walker MBE, Executive Director of the Chernobyl Children's Project UK

Victor Mizzi MBE, Executive Director of the Chernobyl Children's Lifeline

Pete Roche, on behalf of No2Nuclear Power.co.uk

(Agreed and fully endorsed by the above on behalf of their respective groups.) Appendix 1

May 3, 2011

Fallout: the Legacy of Chernobyl

BBC Radio 4 programme broadcast on April 26 and May 1 2011

Comments by Dr IAN FAIRLIE

The above radio programme suffers from five main defects and a number of factual inaccuracies.

The most serious defect is a lack of balance to the point of apparent bias. A balance of views is presented from eastern scientists (i.e. from Belarus and Ukraine) but not from western scientists. According to Mr Ross, the "great majority" of the (western) scientists whom the programme makers spoke to were in favour of nuclear power. The question naturally arises as to why did they not speak to other scientists? To my knowledge, the programme makers could have interviewed at least four distinguished UK professors who would have supplied more rounded views in this area. Two are renowned for having first discovered the large increases in childhood thyroid cancers arising from Chernobyl: not to have approached either of these scientists is an oversight.

The programme started inauspiciously with a chance meeting with the head of UKAEA at London airport. This rather set the tone for much of the rest of the programme: apparently all the UK and US scientists interviewed by Mr Ross had pro-nuclear views and were emphatic that Chernobyl's radiation effects had been exaggerated. Lacking were more nuanced views from scientists with a less partisan take on these matters.

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The programme makers omitted to refer to a recent major study of Chernobyl's health effects by eastern scientists:

Chernobyl - consequences of the catastrophe for people and the environment.

Alexey V. Yablokov, Vassily B. Nesterenko, Alexey V. Nesterenko (Editors). Janette D. Sherman-Nevinger (Consulting Editor). Annals of the New York Academy of Sciences, Volume 1181, Number 1, November 2009.

<http://www.nyas.org/Publications/Annals/Detail.aspx?cid=f3f3bd16-51ba-4d7b-a086-753f44b3bfc1>

This lengthy book (347 pages) was mainly written by the former scientific advisor to former Soviet President Mikhail Gorbachov and Russian President Boris Yeltsin. It has sparked much discussion among western scientists: two lengthy and contrasting book reviews of this monograph were recently published in the peer reviewed journal, Radiation Protection Dosimetry.

See: <http://rpd.oxfordjournals.org/content/141/1/97.extract?sid=f470848d-60c8-4e7f-a64f-c4a40f8a982a> and:

<http://rpd.oxfordjournals.org/content/141/1/101.extract?sid=f470848d-60c8-4e7f-a64f-c4a40f8a982a>

The programme makers would have benefitted immensely from reading these two reviews and the book itself.

The second defect is the mismatch between what interviewed scientists said and the programme's statements which followed. One example is after a series of statements by eastern scientists of increasing evidence of various cancer types, non-cancer effects such as cardiovascular diseases and increased ill health in general following Chernobyl. Mr Ross immediately dismissed these observations as not being accepted by "western scientists" as if this were the end of the matter. But it isn't: some western scientists do adopt superior or condescending attitudes when discussing eastern science but these attitudes are ill founded. Many western criticisms of eastern studies are found all too often in western studies as well. For example, Professor Thomas' criticisms of eastern epidemiology studies are all too common in western studies of nuclear effects as well.

Another example of mismatch occurred after Professor Cardis' statement that there was "mounting epidemiological evidence of small radiation risks even at low doses". Mr Ross then made a number of assertions to the opposite effect. He stated without substantiation that: "... (radiation) risks for individuals were vanishingly small..." and were "far lower than those from ordinary smog". In fact, the risks of inhaling radioactive isotopes such as Cs-137 and Pu-239 would be much greater than inhaling the smoke-fog (smog) particles experienced in London during the 1950s, assuming similar air concentrations for both.

There is a spectrum of views about how dangerous low levels of radiation are, as explained by Dr Cardis. Although Mr Ross is entitled to his own personal view, he should have acknowledged these were at one extreme of the spectrum and that many distinguished radiation scientists in the UK and US would disagree with his view. These would include the 14 eminent UK and US radiation biologists and epidemiologists who authored a famous article in 2003 stating that the existing model for estimating radiation risks could be underestimating them.

See: Brenner DJ, Doll R, Goodhead DT, Hall EJ, Land CE, Little JB, Lubing JH, Preston DL, Preston JR, Puskin JS, Ron E, Sachs RK, Samet JM, Setlow RB and Zaider M (2003) Cancer risks

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attributable to low doses of ionizing radiation: assessing what we really know. (2003) PNAS Nov 25, 2003, vol. 100 no. 24. pp 13761–13766.

Third is the programme's failure to appreciate important distinctions in radiation risks, including those between deterministic and stochastic effects and between internal and external radiation. The risks from internal exposures to radiation from ingested or inhaled radionuclides at Chernobyl are quite different from the risks of external radiation exposures, a point which Mr Ross fails to grasp. This is important because the majority of the doses to people from Chernobyl's plume were (and are) from internal radiation. One would have also liked to have heard some balancing discussion of the important role of unreliable dose estimates; of the recent German Government's 'KiKK' evidence of large risks near nuclear power stations in Germany; and of the hazards of radiation's new non-targeted effects.

Fourth is the programme's downplaying of radiation risks by stating that findings of increased cancer incidences by the 2005 WHO/IAEA report are mere "predictions", as if they were not real. However all official estimates of increased cancer rates are estimates. This is because radiation's effects are stochastic, because cancers occur after lengthy latency periods and because cancers due to radiation cannot be distinguished from ordinary cancers. Therefore we can only estimate and not state precisely how many cancer deaths will occur after radiation exposures. Nevertheless, a large body of scientific evidence makes it abundantly clear that radiation exposures - even at low doses - will result in increased incidences of cancer.

This attempted undermining of the scientific evidence on radiation effects is similar to the statements in the 1970s and 1980s by tobacco companies that lung cancer deaths were only "predictions" and not real. Nowadays, estimates and predictions for cancers arising from smoking are accepted without demur. In fact, the scientific evidence for radiation risks is more robust than that for tobacco risks.

Finally, there is the lack of evidence for the programme's main point that fear of radiation and distrust of official statements are more damaging than radiation risks themselves. Essentially, this argument depends on the contentions that radiation risks are very low and that radiation did not cause the array of observed ill health effects in Belarus and Ukraine. Contrary to Mr Ross' statements, neither contention is established from the evidence presented in the programme. For example, the eastern scientists interviewed failed to support either of these contentions, and the selected western scientists simply refused to accept the eastern scientists' evidence - with little explanation for their refusal.

The truth of the matter is that, given the lack of a major health study, we are unlikely to know the precise numbers of cancers and other health effects resulting from Chernobyl. But it is clear - even from official studies - that many thousands of people have died and will die in the future from exposures to Chernobyl's radioactivity. To deny this fact and to allege that the main problem is fear of radiation is regrettable. If nothing more, it reveals a lack of humanity towards the continuing plight of many people in Belarus and Ukraine who continue to be exposed to Chernobyl's contamination.

Below is a list of inaccuracies or misleading statements in the programme.

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Ian Fairlie

Radio 4 programme stated	Comment
Mr Ross states "Chernobyl accident contaminated 75,000 square miles of Europe" (i.e. ~200,000 sq km)	According to the EU, the Chernobyl plume in fact contaminated 3,800,000 sq km of Europe. See table 3.1 of the independent TORCH report at www.chernobylreport.org
Dr Thomas alleges that "we weren't exposed to radiation from Chernobyl"	Yes, we were. See the map of exposures throughout Europe in figure 3.2 of the TORCH report. Chernobyl fallout resulted in restrictions on the movement of contaminated lambs in thousands of UK farms. Today, these restrictions remain on 334 farms, particularly in Wales.
Mr Ross states the 2005 IAEA/WHO report said 4000 deaths from Chernobyl	It was the IAEA Press Release which incorrectly stated 4,000 deaths. The full IAEA/WHO report stated nearly 9,000 deaths: this incorrect citation was later acknowledged by WHO.
Sir David King alleges that the radiation dose from one transatlantic flight (~0.05 mSv) would be greater than the doses received from walking around near Fukushima	This statement is incorrect and inconsistent with the following: 6,000 sq km near Fukushima is a no entry area for all civilians which is enforced by military troops: 200,000 people have been evacuated from near Fukushima: the maximum allowed dose for workers has been increased from 50 mSv to 250 mSv per year: several workers have received life-threatening doses of radiation: the radiation limit for children in schools and playgrounds in Fukushima prefecture has been increased from 1 mSv to 20 mSv per year. The UK Government has evacuated all UK nationals from Tokyo - 200 km from Fukushima
Mr Ross refers to 25 years as a long time for radiation effects ("even after 25 years")	Latency periods for solid cancers can extend over many decades. For example, significant numbers of cancers are still arising among the Japanese survivors of the atomic bombs, who were exposed 65 years ago.
Dr LiVolsi states "No expert opinion finds increases in any other sort of cancer"	Ivanov et al (1995) and others have reported increased incidences of several solid cancers. The 2005 WHO/IAEA report pointed to increased breast cancers among exposed women under 45 years old at the time of the disaster.
Professor Tuttle states "we haven't seen a <u>big</u> increase in other cancers" (ie apart from thyroid cancer)	As stated above, there are small, but statistically significant, increases in other cancers.
Mr Ross states "the Chernobyl (exclusion zone) is now a wildlife park"	This is due to the exclusion of man and agriculture from the zone and the resulting influx of new species, and not to the absence of radiation effects implied by the programme. The programme makers appear unaware of the studies by Professor Mousseau and

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	others on genetic mutations in birds, small mammals and plants within the zone.
Mr Ross states "...like a broken steam pipe ...as at Fukushima..."	Not to mention three major explosions, partial meltdowns, burning of spent nuclear fuel, and extensive releases of radioactive materials.

(2) Dr Fairlie was a member of the UK Government commissioned independent Committee Examining Radiation Risks of Internal Emitters (CERRIE). Its final report is available from <http://www.cerrie.org>

(3) See: <http://www.timeslive.co.za/scitech/article1051210.ece/WHO-backs-independent-radiation-research>, May 5th 2011.

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