



# General Assembly

Twelfth Session

Distr.: Upper Elementary  
XX March 2018

Original: English

## Fourth Committee – Special Political and Decolonization Committee

This group works on special topics. It used to help colonies get independence. By 1990 most colonies were independent. For this reason, it added “Special Political” to its name and began to look at other issues not covered by other committees.

There are 17 non-self-governing-territories. These are areas of the world under the control of a state but not strictly part of that state. Some examples are Bermuda, Western Sahara, and Guam. Every year this group discusses what should happen with these areas.

The “Special Political” part of this group looks at other questions that do not fit in the other committees. They look at issues affecting Palestinian refugees, atomic radiation and how to use space for peace. Also, they discuss the topics of peacekeeping, land mines, and public information. The University for Peace is also on their agenda.

### Agenda Item 47 – Effects of atomic radiation

Ionizing radiation (atomic radiation) is radiation that carries a lot of energy. It is capable of pushing electrons out of atoms. It is invisible to the human eye and can be dangerous to living things. Every day we are exposed to ionizing radiation that occurs naturally. The sun releases solar radiation every day. There is naturally occurring radiation in soils and rocks. This is transferred to all the foods we eat. However, the dose is so small that it does not harm us.

Radioactive materials release radiation. Many elements are found naturally that are radioactive: uranium, potassium and thorium. When humans discovered all the uses for these radioactive elements we began to be more exposed to radiation. 14% of the radiation humans are exposed to every year comes from man-made sources. Ionizing radiation has many positive uses such as x-rays, creating energy and for cleaning medical equipment. However, it has military uses as well. In World War II the United States developed the atomic bomb. It was dropped on Hiroshima and Nagasaki. It killed hundreds of thousands of people and people were affected negatively by the exposure to radiation for months and years afterwards.

When cells meet ionizing radiation three things can happen: the cells can die; the cells can repair themselves; or the cells can change (mutate) and no longer be helpful. Humans can live with some radiation. Yearly, most people will be exposed to 1-3 mSv of radiation a year. A dental x-ray is 0.01 mSv and a banana has 0.00001 mSv. A trip to Mars would be 250 mSv. According to the World Nuclear Association less than 100 mSv in a year is safe.

The UN created the United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) to research and monitor levels of radiation around the world.

## Recent Developments

- Radiation stays in our environment for a long time. It is measured using a term called "half-life". This is how many years it will take the radiation in an element to be reduced by half.
- Uranium-235 has a half-life of 703.8 million years! Therefore, actions that happened years, decades or millions of years ago still have an effect today. Radiation humans create today will be a problem for countless generations in the future.
- Before scientists discovered the dangers of radiation they worked without any protection. Marie Curie, a radiation researcher, died in 1934 because of radiation. Her notes are still radioactive. People who want to see them need to wear protective clothing.
- Scientists and governments have strict safety guidelines for radioactive materials. However, some states are trying to get nuclear power without having proper safety rules in place.
- Radiation can be bad and good. Exposure to unsafe levels of radiation can cause cancer. Ironically, exposure to doctor-monitored levels of radiation can destroy cancer cells.
- Nuclear power plants create energy for millions of people around the world. They are cheap to run, effective and do not produce any air pollution or carbon dioxide.
- Mining uranium for nuclear power plants and preparing it takes a lot of energy. Also, after the uranium is used to power the plant it is still radioactive. Governments need to find a place to store the radioactive waste for thousands of years.
- Until 1993, 11 states dumped nuclear waste in the oceans. This was finally banned by international agreements.
- The United States researched sending a rocket with nuclear waste into the sun. The government decided it would be too dangerous and expensive to do.
- Companies have been taking advantage of the fact that Somalia does not have a government that can enforce rules and its borders. Since the 1990s ships have been dumping radioactive materials off the coast of Somalia. In 2005, a tsunami broke barrels full of radioactive waste and made people along the coast sick.
- In 1986 there was an accident at the Chernobyl nuclear reactor in Ukraine. It was the most serious accident in a nuclear power plant ever. It killed 30 people and forced 220 000 people to be moved to areas. Children living in the area at the time are more likely to have thyroid cancer. It is estimated that 1 million people were affected. UNSCEAR still monitors the situation.
- The most recent nuclear power plant accident happened in Japan. On 11 March 2011, Japan experienced an earthquake. This damaged the power plant. Then, a tsunami destroyed the cooling equipment of the plant. This caused a nuclear meltdown and released radioactive materials into the environment. After this accident, many states began to rethink their nuclear programs.

### **Convention on Early Notification of a Nuclear Accident**

- ✓ This convention was adopted 6 months after the Chernobyl accident in 1986.
- ✓ Asks states to report date, time, and radioactive materials released during an accident.
- ✓ There are 120 parties to this treaty.

### **Convention on the Physical Protection of Nuclear Material**

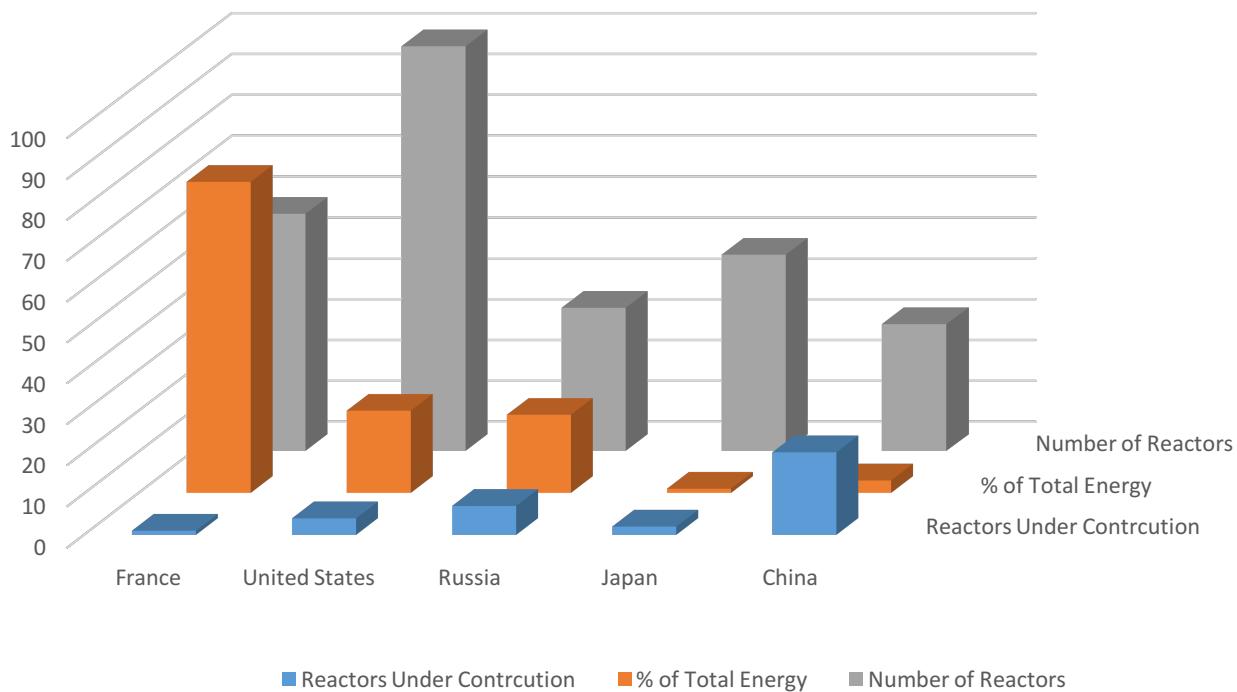
- ✓ This treaty came into force in 1987. It seeks to protect all nuclear materials being used for peaceful purposes in a state.
- ✓ Asks states to cooperate in order to stop the smuggling of nuclear material. States should also physically protect power plants to stop them from being attacked.
- ✓ In 2005, it was renegotiated in order to make it stronger.
- ✓ There are 155 states that are parties to this convention.

### **Convention on Nuclear Safety**

- ✓ This convention became effective in 1996.
- ✓ States are supposed to make sure that they have high levels of safety in their nuclear plants.
- ✓ States have to submit reports which the other states check and then offer advice.
- ✓ There are 80 parties to this treaty.

## **States With Nuclear Power Plants**

The 5 States With the Most Amount of Reactors



## Guiding Questions

1. What sources of radiation is your population exposed to? What is the opinion of the people in your state about radiation exposure?
2. Does your state use nuclear energy? What are some reasons it has decided to use or not use nuclear energy?
3. One of the biggest problems with using radioactive materials is that they sometimes become “orphan sources”. Orphan sources are radioactive materials that end up in unsecure or unsafe situations. Research this problem and what can be done to stop it.
4. How can states work together to lessen the amount of man-made radiation humans are exposed to?
5. Research some of the ways that radiation can be used to benefit humans. How does this balance against the dangers radiation poses?
6. Read this article from 1986 about the Chernobyl disaster: <https://goo.gl/M2wZMG>. How does it show that nuclear disasters create problems farther than just in the state in which they happen?
7. What are the best ways to monitor and study human exposure to radiation? How can states support this work?
8. Does the problem exist in your community?
9. How does being a delegate from a different country help you understand this problem in your community?
10. How do the choices you make in your life help resolve this problem?

## Resources

Title	Hyperlink	How is it helpful?
<b>Radiation Treatment</b>	<a href="http://www.bbc.co.uk/schools/gcsebitesize/science/add_gateway_pre_2011/radiation/treatmentre_v1.shtml">http://www.bbc.co.uk/schools/gcsebitesize/science/add_gateway_pre_2011/radiation/treatmentre_v1.shtml</a>	BBC article that gives a good overview of the science behind radiation.
<b>Report on the Fukushima-Daiichi Nuclear Power Accident</b>	<a href="https://www.youtube.com/watch?v=rd3xYSpzbuk&amp;feature=youtu.be">https://www.youtube.com/watch?v=rd3xYSpzbuk&amp;feature=youtu.be</a>	A video on the 2013 report by UNSCEAR
<b>UNSCEAR 2013 Report</b>	<a href="http://www.unscear.org/docs/publications/2016/factsheet_en_2016_web.pdf">http://www.unscear.org/docs/publications/2016/factsheet_en_2016_web.pdf</a>	A fact sheet for the UNSCEAR report.
<b>Sources of Ionising Radiation</b>	<a href="https://www.epa.ie/pubs/reports/radiation/RPII_Fact_Sheet_Sources_Rad_13.pdf">https://www.epa.ie/pubs/reports/radiation/RPII_Fact_Sheet_Sources_Rad_13.pdf</a>	A fact sheet that explains the sources of ionizing radiation.
<b>Radiation Effects Research Foundation</b>	<a href="http://www.rerf.jp/index_e.html">http://www.rerf.jp/index_e.html</a>	A Japanese-American organization that researches human exposure to radiation.
<b>World Nuclear Association</b>	<a href="http://www.world-nuclear.org/">http://www.world-nuclear.org/</a>	Contains a lot of information about nuclear power plants.
<b>International Atomic Energy Agency</b>	<a href="https://www.iaea.org/">https://www.iaea.org/</a>	A part of the UN that works to use nuclear technologies for peaceful activities.
<b>Factsheets: State Profiles</b>	<a href="https://ola.iaea.org/ola/FactSheets/default.asp">https://ola.iaea.org/ola/FactSheets/default.asp</a>	Profiles of states by the International Atomic Energy Agency.
<b>State Nuclear Power Profiles</b>	<a href="http://www-pub.iaea.org/MTCD/Publications/PDF/CNPP2015_CD/pages/index.htm">http://www-pub.iaea.org/MTCD/Publications/PDF/CNPP2015_CD/pages/index.htm</a>	An interactive map that examines the nuclear power of various states.



# General Assembly

Distr.: General  
22 December 2016

---

Seventy-first session  
Agenda item 47

## Resolution adopted by the General Assembly on 6 December 2016

[on the report of the Special Political and Decolonization Committee  
(Fourth Committee) (A/71/491)]

### 71/89. Effects of atomic radiation

*The General Assembly,*

*Recalling* its resolution 913 (X) of 3 December 1955, by which it established the United Nations Scientific Committee on the Effects of Atomic Radiation, and its subsequent resolutions on the subject, in which, *inter alia*, it requested the Scientific Committee to continue its work,

*Concerned* about the potentially harmful effects on present and future generations resulting from the levels of radiation to which humankind and the environment are exposed,

*Conscious* of the continuing need to examine and compile information about atomic and ionizing radiation and to analyse its effects on humankind and the environment, and conscious also of the increased volume, complexity and diversity of that information,

*Acknowledging* the concerns about the radiological consequences of nuclear accidents,

*Reaffirming* the desirability of the Scientific Committee continuing its work, and welcoming the increased commitment of States members of the Committee,

*Emphasizing* the vital need for sufficient, assured and predictable funding, as well as efficient management, of the work of the secretariat of the Scientific Committee to arrange the annual sessions and coordinate the development of documents based on scientific reviews of the sources of ionizing radiation and its effects on human health and the environment,

*Recognizing* the increasing importance of the scientific work of the Scientific Committee and the need to carry out unforeseen additional work, such as after the accident at the Fukushima Daiichi nuclear power station,

*Considering* that the high quality of the work and the scientific rigour of the Scientific Committee need to be maintained in the future,



*Recognizing* the importance of disseminating the findings of the Scientific Committee, in particular to the public, and widely publicizing scientific knowledge about atomic radiation, and recalling in that context principle 10 of the Rio Declaration on Environment and Development,<sup>1</sup>

*Noting* the desirability that the resources of the Scientific Committee be sufficient, assured and predictable, and recognizing the importance of voluntary contributions to the general trust fund established by the Executive Director of the United Nations Environment Programme to support the work of the Committee,

1. *Commends* the United Nations Scientific Committee on the Effects of Atomic Radiation for the valuable contribution that it has been making since its inception to wider knowledge and understanding of the levels, effects and risks of exposure to ionizing radiation and for fulfilling its original mandate with scientific authority and independence of judgment;

2. *Reaffirms* the decision to maintain the present functions and independent role of the Scientific Committee;

3. *Notes with appreciation* the work of the Scientific Committee, and takes note of the report on its sixty-third session,<sup>2</sup> including the consideration of its long-term strategic directions, and encourages the Committee, over its coming sessions, to work towards implementing strategies to support its efforts to serve the scientific community as well as wider audiences;

4. *Appreciates* that the Scientific Committee has made arrangements for activities to follow up on its 2013 evaluation of the levels and effects of radiation exposure due to the nuclear accident after the 2011 great east-Japan earthquake and tsunami, such as the systematic review of scientific information that has been published since the completion of the Committee's evaluation,<sup>3</sup> welcomes the publication of the second review, and encourages the secretariat of the Committee to disseminate the findings of the Committee's systematic reviews, in particular, to the public;

5. *Welcomes* the four substantive scientific evaluations completed by the Scientific Committee during its sixty-third session, as presented in its report, notes with appreciation the Committee's reports on the methodology for estimating public exposures due to radioactive discharges, on radiation exposures from electricity generation and on biological effects of selected internal emitters (tritium and radioisotopes of uranium),<sup>4</sup> and looks forward to the publication of the supporting scientific annexes thereto;

6. *Requests* the Scientific Committee to continue its work, including its important activities to increase knowledge of the levels, effects and risks of ionizing radiation from all sources, and to report thereon to the General Assembly at its seventy-second session;

7. *Supports* the intentions and plans of the Scientific Committee for conducting its programme of work of scientific review and assessment on behalf of

---

<sup>1</sup> Report of the United Nations Conference on Environment and Development, Rio de Janeiro, 3–14 June 1992, vol. I, Resolutions Adopted by the Conference (United Nations publication, Sales No. E.93.I.8 and corrigendum), resolution 1, annex I.

<sup>2</sup> Official Records of the General Assembly, Seventy-first Session, Supplement No. 46 (A/71/46).

<sup>3</sup> Ibid., chap. II, sect. B.

<sup>4</sup> Ibid., chap. III.

the General Assembly, in particular its next periodic global surveys of radiation exposure, to be conducted in close cooperation with other relevant organizations, and requests the Committee to submit plans for its ongoing and future programme of work to the Assembly at its seventy-second session;

8. *Welcomes* developments in streamlining procedures for publishing the reports of the Scientific Committee electronically on its official website and as sales publications, and calls upon the secretariat to monitor the timely publication of those reports and to continue to strive to publish them within the same calendar year as their approval;

9. *Re-emphasizes* the need for the Scientific Committee to hold regular sessions on an annual basis so that its report can reflect the latest developments and findings in the field of ionizing radiation and thereby provide updated information for dissemination among all States;

10. *Invites* the Scientific Committee to continue its consultations with scientists and experts from interested Member States in the process of preparing its future scientific reports, and requests the secretariat to facilitate such consultations;

11. *Welcomes*, in this context, the readiness of Member States to provide the Scientific Committee with relevant information on the levels and effects of ionizing radiation, and invites the Committee to analyse and give due consideration to such information, particularly in the light of its own findings;

12. *Recalls* the strategy of the Scientific Committee to improve data collection, encourages in this regard Member States, the organizations of the United Nations system and non-governmental organizations concerned to provide further relevant data about levels, effects and risks of radiation exposure from various sources, which would greatly help in the preparation of future reports of the Committee to the General Assembly, and encourages the International Atomic Energy Agency, the World Health Organization, the International Labour Organization and other relevant organizations to further collaborate with the secretariat on arrangements for the collection, analysis and dissemination of data on radiation exposures of patients, workers and the public;

13. *Welcomes* the use and ongoing development by the secretariat of an online platform for collecting data on medical exposures, encourages Member States to take part in the Scientific Committee's global surveys of radiation exposure, and also encourages Member States to nominate a national contact person to facilitate coordination of the collection and submission of data on exposures of patients, workers and the public within their country;

14. *Requests* the United Nations Environment Programme to continue, within existing resources, to actively support the effective conduct of the work of the Scientific Committee and the dissemination of its findings to Member States, the scientific community and the public;

15. *Takes note*, in this regard, of the Scientific Committee's outreach strategy for the coming years, in particular the enhancement of the website of the Committee and the publication of informative leaflets and posters in all the official languages of the United Nations, and continues to encourage that consideration be given to publishing the website in all of those languages;

16. *Encourages* the United Nations Environment Programme to continue to maintain appropriate funding for the Scientific Committee, pursuant to paragraph 15 of General Assembly resolution [70/81](#) of 9 December 2015;

17. *Encourages* Member States to make voluntary contributions to the general trust fund established by the Executive Director of the United Nations Environment Programme and also to make contributions in kind, in order to support the work of the Scientific Committee, and the dissemination of its findings, in a sustainable manner;

18. *Recalls* paragraph 19 of General Assembly resolution [66/70](#) of 9 December 2011, notes the expression of interest by Member States in membership in the Scientific Committee, and requests the Secretary-General to provide the Assembly at its seventy-second session with a list of the Member States that have expressed their particular interest in membership in the Committee by 11 September 2017, for consideration for membership pursuant to the above-mentioned paragraph.

*53rd plenary meeting  
6 December 2016*

---