

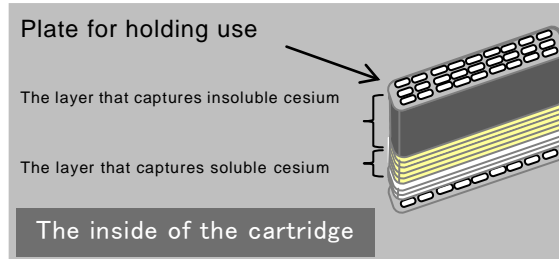
Performance of the water purifier incorporated with material capturing radioactive cesium has been verified.

The Japan Atomic Energy Agency (JAEA) has confirmed that the water purifier incorporated with material that captures radioactive cesium has sufficient performance. This capturing material was developed by JAEA in collaboration with Kurashiki Textile Manufacturing Co. Ltd. (Kurabo Group) in 2012. In cooperation with Kawauchi Village, Futaba-gun, Fukushima Prefecture, JAEA had conducted the monitoring tests throughout a year by utilizing the water purifier filled with this capturing material at private houses in the village. As a result, no radioactive cesium was detected in tap water filtered through the water purifier, and thus it was found that this capturing material had sufficient effectiveness to adsorb radioactive cesium. JAEA intends to continue evaluating the validity of the water purifier for the use of dairy farming and tap water system being used.

Three years have passed after the accident of Tokyo Electric Power Company (TEPCO)'s Fukushima Daiichi Nuclear Power Station, and radioactive cesium is now hardly detected in environmental natural water. However, due to typhoons and thawing, there will be a possibility that radioactive cesium attached to soil or fallen leaves will be unexpectedly mixed into a resource of water supply such as the mountain stream water.



Under these circumstances, JAEA and Kurashiki Textile Manufacturing Co. Ltd. started to develop the material that adsorbs radioactive cesium contained in drinking water. By utilizing the technology called electron beam graft polymerization to combine mutual molecules chemically by electron beam irradiation, they have developed the fibrous material that captures radioactive cesium selectively. They have also produced the water purifier incorporated with this capturing material for family use, and have conducted the monitoring tests for one year at 13 households in Kawauchi Village since March 2013. Replacing the cartridges every one or two months, they have examined how much radioactive cesium the cartridges had captured.

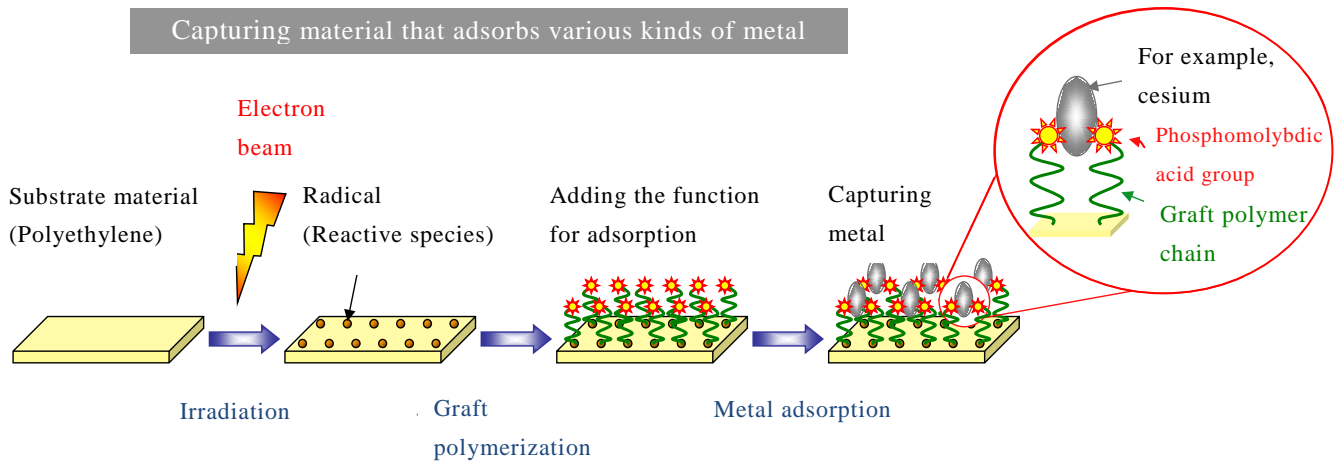


At one household among 13, a minute amount of radioactive cesium was detected in a part of some raw water. However, no cesium was detected from the water after being filtered

through the water purifier. On the basis of this result, even if radioactive cesium is mixed into water resources for some reason, it has been demonstrated that radioactive cesium will be surely removed by using this water purifier.

For more details, see

<http://www.jaea.go.jp/02/press2013/p14032701/index.html>



TOPICS Fukushima No.46

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