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1. Purpose of Survey

As Prime Minister Abe defines the coming Tokyo 2020 Olympics as “Reconstruction Olympics”, great interest is globally shown in the radiation in Fukushima Prefecture. The survey is to study the radioactive contamination of the surroundings along the roads where the Torch Relay will go running, mainly in Hama-dori Area of Fukushima prefecture.

2. How We Made Survey

- (1) We surveyed radioactive contamination levels on and around the route of the Olympic Torch-relay, over towns and villages in Fukushima Prefecture Hama-dori area. Measurement was made on radiation dose rate at the height of 1m above the ground and on radioactive concentration of soils.
- (2) When Survey was performed: December 16 through 18, 2019, January 13 through 14, 2020.
- (3) Where Survey was performed: 69 locations (9 in Tomioka, 6 Okuma, 11 Naraha, 7 Kawauchi, 7 Minami-Soma, 6 Namie, 7 Katsurao, 9 Iitate, and 7 Kawamata)
- (4) Where measurement was made: Two to three locations in the Olympic Torch-relay Route in each city, town, and villages, and five to six locations at road sides, parks, residential areas, and forests around the route.

3. Summaries of Survey Results

- (1) 43 out of 69 locations (62%) surveyed are found to be “Intensive contamination survey areas” specified by the “Decontamination Special Measures Act”, with air dose level above $0.23\mu\text{Sv/h}$. Though the government has announced that all areas have already been decontaminated, those areas are still at a level shall be decontaminated specified in the law.
- (2) 3 locations (4.4%) are in the levels of categorized as “Zone of alienation” defined by Chernobyl Law. 10 (14.5%) are in the level of “Zone of obligatory resettlement”. 25 (36.2%) are in the level of “Zone of guaranteed voluntary resettlement”. 18 (26.1%) are in the level of “Zone for radiation control”. Only 13 (19%) locations do not belong to any radiation level category.
- (3) A severe Hot-spot was detected in the Torch-relay route in Iitate: soil contamination density of $2,140,000\text{Bq/m}^2$, and dose rate of $0.85\mu\text{Sv/h}$ (at the height of 1m from ground).
- (4) Even on the Torch-relay route road, 11 locations (52%) show radiation contamination levels which are categorized as “Intensive contamination survey areas” specified in “Decontamination Special Measures Act”.
- (5) On Torch-relay route road, 14 locations (67%) show radiation levels above than “Zone for radiation control” defined by Chernobyl Law. Only 7 locations (33%) do not belong to any specific area designation.

4. Conclusions.

- (1) We found extremely serious hot spot on torch relay route in Iitate: air dose rate is $0.85\mu\text{Sv/h}$, soil

contamination density is 2,140,000 Bq /m². Inhabitants are living in those areas. Their annual exposure may possible 7.5 mSv. It exceeds seven times the general public limit (1 mSv / year). Further survey should be made by Japanese Government on and along the Torch-relay Route to identify similar hot-spots.

- (2) It is dry in late March, when the torch relay takes place. Attention should be paid to internal exposure due to inhalation of soil dust. Runners and supporting people especially children need to be warned.
- (3) All our surveyed areas are places where people live. The government has announced that decontamination of these areas have been completed, but it is clear that they are still in the levels where should be decontaminated according to the "Decontamination Special Measures Act".
- (4) Prime Minister Abe is intended to make a message to the world as if Fukushima had been reconstructed by calling "Reconstruction Olympics". However, radioactive contamination caused by the Fukushima NPPs accident is still serious. It is not permissible to make the Olympics to send wrong information to the world.

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