

Evaluation of the expected doses of fire brigades at the Chernobyl exclusion zone in April 2015

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Assessment of area and behavior of large wildfire in the Chernobyl Exclusion Zone (ChEZ) which has been burning during April 27 - 29, 2015. Levels of radionuclide contamination of combustible material show that expected effective dose of firefighters during one fire-line hour did not exceed 0.64 μSv in case of external exposure and 0.37 μSv in case of internal exposure. It is shown that the expected effective dose of internal exposure of firefighters during suppression of wildfires in ChEZ were below the dose from external exposure. At the moment exposure of ^{90}Sr and ^{241}Pu (along with $^{238-240}\text{Pu}$ and ^{241}Am) make the most significant contribution to the internal dose of firefighters during forest and grassland fires suppression in the ChEZ.