



## Information for ENSREG Members about the first meeting of the Independent International Scientific Commission (IISC) to investigate the Ru-106 incident

- The first meeting of the Commission was held on 31st of January, 2018, in Moscow, at IBRAE RAN premises.
- The Commission consists of experts from France, Finland, Sweden, Germany, Norway, Great Britain (not participating in the first meeting), Russia and one observer from OECD/NEA.
- In the meeting experts from France, Finland, Sweden, Norway, Germany and Russia presented results of measurements and findings related to the Ru-106 incident in September- October 2017. After that, the Commission members discussed the presented information.
- The Commission members drew the following common conclusions of the 1st Meeting: *(comment from BfS: the conclusions are directly taken from the minutes of the meeting)*
  1. Based on the measurements in different European countries and Russia, the entire activity of Ru-106 found in the air in between the end of September to the beginning of October, 2017, is estimated as ~ 100 TBq.
  2. Based upon the available data, no health effects are expected for the population.
  3. Modelling calculations performed in different countries are consistent with each other, though there are too many uncertainties to make conclusions about the location of the Ru source at the moment.
  4. In some countries, measurements of Ru-103 were made. The ratio of Ru-106/Ru-103 was the same and corresponds to a fresh spent fuel.  
*(comment from BfS: "fresh spent fuel" means spent fuel about 1 – 1.5 years after unloading from the reactor)*
  5. The Commission needs to collect and verify all available data, to form a unified Database and assess the quality of the data. There is a need to request Roshydromet on the local weather conditions data and additional data on precipitation measurements.
  6. There is a need in additional measurements upward the wind direction from localities where Ru-106 was found in the Chelyabinsk Region. The Commission considers helpful to get measurements from Romania on deposition of Ru-106 due to the highest values of Ru-106 activity detected.
  7. The hypothesis on the "medical" origin of Ru-106 (as a source for medical therapy) can be excluded.
  8. According to Roshydromet data, a specific atmospheric phenomenon of descending air flow circulation was observed in the Chelyabinsk Region around the end of September. These data shall be taken into account for further consideration.
  9. The Commission noted that the Rostekhnadzor inspections were conducted at the PO "Mayak" and NIIAR (Dimitrovgrad) facilities covering the operations during the period August – November 2017, and no deviations from normal technological processes were found.
  10. The Commission agrees to work transparently and communicate the outcomes and conclusions to the public.
  11. The next meeting of the Commission is scheduled for April 11, 2018 in Moscow.
- Information about the Commission meeting has been published by IBRAE (<http://en.ibrae.ac.ru/newstext/885/>), IRSN, NRPA and SSM (BfS is planning to publish it next week).