

**The radiation situation in the sanitary protection zone of the city of Prip'yat, at 10:00AM,
April 26, 1986**

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The first change in radiation situation occurred at 3:00 AM on April 26, 1986. During this period, the weather was calm, wind speed was less than 1 m/sec, in the south-easterly direction (150° to 50°).

The dose rate along Kurchatov Street was 144 $\mu\text{Sv/h}$, and along Druzhby Narodov Street, 432 $\mu\text{Sv/h}$; in the sanitary protection zone, it ranged from 2,160 to 3,600 $\mu\text{Sv/h}$.

At 5:00 AM, weather conditions remained unchanged. The dose rate along Kurchatov Street was 72 $\mu\text{Sv/h}$, along Druzhby Narodov Street 144 $\mu\text{Sv/h}$. In the sanitary protection zone, it was 2,160–3,600 $\mu\text{Sv/h}$.

At 10:00 AM, wind gusts increased to 1.5–2.0 m/sec in the direction of 150–50°. The dose rate along Kurchatov Street was 144 $\mu\text{Sv/h}$, along Druzhby Narodov Street, up to 540 $\mu\text{Sv/h}$. In the sanitary protection zone, the dose rate was 2,160–3,600 $\mu\text{Sv/h}$.

The dose rate is determined by the activity of inert radioactive gases, krypton and xenon. Given the high concentration of inert radioactive gases, it is not possible to determine the content of long-lived radionuclides.

Measurements were made using a DRG-01T120 device.

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