

Russia's Major Elements of the Soviet BW Program (1973-1992)

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| CODENAME | FUNCTION |
|--------------------------------------|---|
| Problem 5 [1] | Program dedicated to defense against biological threats, natural and man-made. The extent to which Problem 5 spanned into the offensive realm is unclear. |
| Ecology (Ekologiya) [2] | Rinderpest virus (RPV), Virus, Rinderpest |
| Enzymes (Fermenty/ Problem F) [3] | Anti-livestock and anti-crop biological weapons program, run by the Ministry of Agriculture. |
| Metol [4] | Program launched in 1970s to expand and modernize the Soviet offensive biological warfare efforts, including through the use of genetic engineering. |
| Vector [5] | Project (and facility name) dedicated to research and development of viral weapons, including genetically engineered viruses to be used as weapons. |
| Factor [6] | Project dedicated to creating new classes of biological agents with new properties to produce more effective biological weapons. |
| Bonfire [7] | Project dedicated to engineering new neurotoxin weapons. |
| Flute [8] | Project aimed at developing psychotropic and neurotropic agents for use in special operations. |

Sources:

- [1] Raymond A. Zilinskas, "The Anti-Plague System and the Soviet Biological Warfare Program," *Critical Reviews in Microbiology* 32 (2006), pp. 47-64.
- [2] Ken Alibek with Stephen Handelman, *Biohazard: The Chilling True Story of the Largest Covert Biological Weapons Program in the World—Told from Inside by the Man Who Ran It* (New York: Random House, Inc., 1999), pp. 37-38.
- [3] Ken Alibek with Stephen Handelman, *Biohazard: The Chilling True Story of the Largest Covert Biological Weapons Program in the World—Told from Inside by the Man Who Ran It* (New York: Random House, Inc., 1999), pp. 39-47; Anthony Rimmington, "The Soviet Union's Offensive Program: The Implications for Contemporary Arms Control," in *Biological Warfare and Disarmament: New Problems/New Perspectives*, ed. Susan Wright (Lanham: Rowman& Littlefield Publishers, Inc., 2002), p. 110.
- [4] Ken Alibek with Stephen Handelman, *Biohazard: The Chilling True Story of the Largest Covert Biological Weapons Program in the World—Told from Inside by the Man Who Ran It* (New York: Random House, Inc., 1999), p. 159; "Interview Dr. Ken Alibek," *Journal of Homeland Security* (28 September 2000), www.homelandsecurity.org.

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- [5] Ken Alibek with Stephen Handelman, *Biohazard: The Chilling True Story of the Largest Covert Biological Weapons Program in the World—Told from Inside by the Man Who Ran It* (New York: Random House, Inc., 1999), pp. 118-120; "Interview with Sergei Popov," *Journal of Homeland Security* (1 November 2000, updated 19 November 2002), www.homelandsecurity.org.
- [6] "Interview with Sergei Popov," *Journal of Homeland Security* (1 November 2000, updated 19 November 2002), www.homelandsecurity.org.
- [7] Ken Alibek with Stephen Handelman, *Biohazard: The Chilling True Story of the Largest Covert Biological Weapons Program in the World—Told from Inside by the Man Who Ran It* (New York: Random House, Inc., 1999), pp. 153-167.
- [8] Ken Alibek with Stephen Handelman, *Biohazard: The Chilling True Story of the Largest Covert Biological Weapons Program in the World—Told from Inside by the Man Who Ran It* (New York: Random House, Inc., 1999), pp. 171-172.

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