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### Russian Plasma Steath?

From: Stig Agermose <[stig.agermose@get2net.dk](mailto:stig.agermose@get2net.dk)>  
Date: Fri, 29 Jan 1999 23:17:57 +0100 (MET)  
Fwd Date: Sat, 30 Jan 1999 17:26:01 -0500  
Subject: Russian Plasma Steath?

Source:

<http://www.ufomind.com/military/aircraft/skunkworks/mailing/msg02028.shtml>

Stig

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Skunk Works Mailing List

Russian plasma stealth?

Date: Fri, 29 Jan 1999 15:57:55 +0100 (MET)  
From: [pharabod@in2p3.fr](mailto:pharabod@in2p3.fr)  
Subject: Russian plasma stealth?

In attachment is an alleged Russian ITAR-TASS agency release about a new way of obtaining stealthiness, via the use of "plasma". They say that it's or will be far better than the US Lockheed Skunk Works or Northrop way.

J. Pharabod

Author = Philip Kaploun

Russian Low Observability Technologies Data Released

Russian Scientists Created Revolutionary Low Observability Technologies

Moscow, January 20. Nicolai Novichkov, ITAR-TASS information agency

Research team of the Research Center named after M.V. Keldysh has developed new technologies allowing dramatic decrease in aircrafts' radar observability. Russian approach to low observability (LO) technologies is completely different from US Stealth and offers complete furtiveness of the protected object at a significantly lower price. An exclusive interview about these technologies was conducted by Nicolai Novichkov, ITAR-TASS with director of the Center, academic of Russian Scientific Academy Anatoliy Kortelev.

As academic explained, American approach to LO (Stealth technology) applied on B-2, F-117A, and fifth generation fighter F-22 "Raptor" is based on the following principles. The airframes of these aircrafts are designed to minimize their radar cross section (RCS), avoid all possible elements of the structure, which could reflect electromagnetic radiation. In order to minimize reflected radiation radio absorbing materials (RAM) are also applied to the surface of the structure. The main drawbacks of the Stealth technology are its negative effects on the flight and agility characteristics of the stealth aircrafts.

Russian scientists approach the issue from the other direction. They proposed to create a plasma formation around protected object, which prevents radars from seeing it. Thus, aerodynamical characteristics of the plane itself do not suffer. Without interfering with technical characteristics the artificially created plasma cloud surrounding the plane guarantees more than hundred times decrease in its observability.

The physics of plasma protection can be described as following. If an object is surrounded by a cloud of plasma, several phenomenas are observed when the cloud interacts with electromagnetic waves radiated by enemy radar. First, an absorption of electromagnetic energy occurs in the cloud, since during plasma penetration it interacts with plasma charged particles, pass onto them a portion of its energy, and fades. Second, due to specific physical processes, electromagnetic wave tends to pass around plasma cloud. Both of these phenomenas results in dramatic decrease of the reflected signal.

Static and flight experiments proved the effectiveness of this technology. The first generation devices, producing plasma field surrounding an aircraft and decreasing reflected signal were created in the Center. Later, a possibility of creating second generation advanced systems (capable of not only decreasing reflected signal and changing its wavelength, but also producing some false signals) was discovered. Such systems significantly complicate determination of actual aircraft's speed, its location and leads to development of completely new approaches to LO provision, unachievable to conventional Stealth technology. Furthermore, the weight of the systems developed in Russia do not exceed 100 kg, and power consumption ranges from kilowatts to tens of kilowatts.

Advances in development of the third generation LO systems allowed to clear the systems of first and second generation for export, commented academic Anatoliy Kortehev.

26/01/99  
(c) ITAR-TASS,

Translation by Philip Kaploun.

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