United Nations A/AC.105/838/Add.1



Distr.: General 19 January 2005

English

Original: Russian

Committee on the Peaceful Uses of Outer Space

National research on space debris, safety of space objects with nuclear power sources on board and problems relating to their collision with space debris

Note by the Secretariat*

Addendum

Contents

		1 ug
II.	Replies received from Member States	2
	Ukraine	2

V.05-80359 (E) 260105 270105



^{*} The present document was prepared on the basis of replies from Member States received after 3 December 2004.

II. Replies received from Member States

Ukraine

[Original: Russian]

- 1. Ukraine attaches particular importance to the problem of outer space pollution, and designs, operates and upgrades its carrier rockets and other spacecraft with a view to minimizing such pollution. One of the priorities of Ukraine's national space programme is to improve the design of carrier rockets with a view to preventing man-made space pollution. Measures are envisaged to prevent debris creation in near-Earth space in the following carrier rockets that are currently in use or being upgraded or developed by Ukraine, namely Zenit-2, Zenit-2M, Zenit 3-SL, Dnepr-1, Dnepr-M, Tsiklon-3 and Tsiklon-4.
- 2. With regard to the space debris problem, space research and activities in Ukraine are aimed at the following objectives:
- (a) The prevention and reduction of space debris resulting from the launch of carrier rockets;
 - (b) The prevention of outer space pollution caused by satellite exploitation;
 - (c) Research on space debris using Ukraine's radio communications systems;
- (d) Modelling of the processes involved in hypervelocity collisions of macroscopic space debris fragments with satellite construction elements and with samples of construction materials;
- (e) The development and implementation of technical standards to define general requirements for mitigating orbital pollution caused by the exploitation of space technology.

2