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Varna, Bulgaria
125th September 1978

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冠者 去る九月十五日重葺帰国いたしました。何れ拜眉り
譯しく御報告申上りし所存ですが、取敢えずオニハグ
会議の終了後あされた評議今声明、参加者リスト、論
文リストおよび
短、拙論の字しと同封してお届けします。今回は「核
軍備への新しい
構想」の印税の中ら千ドル分税金としてカフランに
手渡して来ました。
なおソ連から参加していたマルコフ先生の御健康を
案じられ、
宜しくとのことでした。御自愛と祈りフナー筆
御報告まで。

一九七八年九月廿三日 名古屋にて

豊田利彦

湯川香樹先生

"LEOPARD"

MARUZEN

T. Toyoda (Japan)

XXVIII-61

TECHNICAL FEASIBILITY OF INTERNATIONAL SATELLITE
MONITORING SYSTEM FOR STRATEGIC ARMS

At the Kyoto Pugwash Symposium in 1975, I proposed an international satellite monitoring system for strategic arms, discussing its technical feasibility. (See "A New Design for Nuclear Disarmament", a Pugwash monograph edited by W. Epstein and T. Toyoda, Spokeman Press, London, 1977). Recently a similar proposal has been made officially by the French Government.

Here I simply summarize important arguments in favour of my proposal:

1. It would improve prospects for world disarmament.
2. It would provide an opportunity to countries other than the two superpowers for substantial promotion of reducing strategic arms from world arsenals.
3. It would also provide an opportunity for obtaining a neutral version of any supposed violations. The funding of such a system may be provided by the UN Organization and ^{the} monitoring feasibility study should be done by a committee of experts from France, Canada, Sweden, Japan, India, Australia, New Zealand, Switzerland and Finland.

4. The superpowers are welcome to provide technical advice on the building of such a net-work system.

At present, I would like to propose to start the study of the technical feasibility of the international monitoring system as soon as possible. The study may cover the following questions:

- a) how many satellites are needed?
- b) how much resolution of camera and film are needed?
- c) what kind of transmissions are required?
- d) what are the data processing, pattern recognition requirements?
- e) adoption of procedures of verification, and raising complaints on non-compliance, as prescribed by treaties.
- f) political problems of organization, operation and funding.

Of course, financial problems should be carefully investigated simultaneously.

Finally, it should be kept in mind that the two superpowers have been performing their own monitoring by themselves, so that the physical possibility has been completely solved.

Sept 2 '78
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