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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

WASHINGTON, D.C. 20546

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REPLY TO
ATTN OF: **WX**

MEMORANDUM

TO: CIA/Dr. Donald Steininger
Assistant Deputy Director for Science and Technology

FROM: WX/Technical Coordinator, Office of DOD and Interagency
Affairs

SUBJECT: Coordination of US/USSR Space Agreement Recommendations

Attached is a copy of the recommendations of the Joint US/USSR Working Group on Space Biology and Medicine which has just completed a meeting in Moscow in implementation of the NASA/Soviet Academy agreement of January 1971.

These recommendations are subject to approval in whole or in part by the principals within sixty days. Please note the restriction on release.

We have arranged for Dr. Charles A. Berry, the US Co-Chairman of the Working Group, to report on the meeting, which included an exchange of data on the biomedical aspects of the Soyuz and Apollo programs, on November 15 at 2 PM (400 Maryland Avenue, Room 5026). We would be happy to have a representative from your staff attend.

We would appreciate your comments. If there are no objections by November 22, we plan to forward a letter approving the recommendations.

The attached recommendations are being coordinated with OSD, OST, NASC, DS, NSC.

A handwritten signature in black ink, reading "Myron W. Krueger", is written over a circular stamp containing the letter "W".

Myron **W** Krueger

Attachment
as stated

NASA review completed

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RECOMMENDATIONS BY THE JOINT WORKING GROUP ON
SPACE BIOLOGY AND MEDICINE ESTABLISHED UNDER THE
SUMMARY OF RESULTS

of Discussions on Space Cooperation
Between

THE U.S. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
AND THE ACADEMY OF SCIENCES OF THE USSR
Held in Moscow, January 18 - 21, 1971

The Joint Working Group on Space Biology and Medicine provided for in the Summary of Results of January 21, 1971, held its first meeting in Moscow, October 9 - 13, 1971. The list of Working Group members taking part is attached.

The Joint Working Group examined biomedical data and results of manned flight programs and exchanged oral and written reports on the Soyuz and Apollo programs. The Joint Working Group gave special consideration to the following aspects of the biomedical results of manned space flight:

- Cardiovascular system.
- Metabolism.
- Water-electrolyte exchange.
- Statokinetic apparatus.
- Performance.
- Vestibular apparatus.
- Biological research.

The Joint Working Group developed the following recommendations for expanded and more regular exchange of space biomedical data in order to make maximum contributions to the safety and efficiency of manned space flight and to general medical knowledge:

1. The Joint Working Group recommends that the exchange of data on manned space flights provided for in the NASA/USSR Academy Summary of Results of January 21, 1971, should include a series of meetings held, as a rule, at least once a year. Exchanges at these meetings should include, in addition to pre- and post-flight data, sufficiently detailed in-flight data to assure a full understanding of the flight experience

experience of each country from a physiological and medical viewpoint, including environmental parameters and results of biological experiments that may have been carried out on these flights. Reports should be submitted in written form, if possible 30 days before the meeting, and should contain data in a format covering body system analyses in detail. Questions on such reports should be considered during the course of the meeting. If either party had not flown a manned mission in the period since the last meeting, it should report in the same format its continuing analysis of the results of previous flights or directly related research. It should be understood that each party may designate questions on the report of the other which it wishes to be addressed in writing within sixty days following the meeting.

2. The Joint Working Group recommends that in addition to the meetings described in Paragraph 1 above, Working Sessions be convened to consider topics of particular interest with the participation of experts. Examples of such topics include, but are not limited to, the following:

- Methods of predicting the state of the human organism during and after space flights with a view to developing common predictors.
- Response of the following systems to the space flight environment:
 - a. Cardiovascular.
 - b. Endocrine.
 - c. Fluid and electrolyte balance.
 - d. Central nervous.
- Techniques of dysbarism prevention in crew members applicable to various decompression conditions.

-- Methods

- Methods of pre- and post-flight medical observations of flight crew members with a view to proposing common usage.
- Objectives, methods, and results of biological experiments, including developmental and genetic research, with a view to coordinating U.S. and Soviet programs.

3. The Joint Working Group recommends that its Co-Chairmen be assigned responsibility for making the detailed arrangements for all meetings. They should establish the time and place of meetings, the Joint Working Group members and supporting experts who will attend, and the formats for conducting the exchanges.

4. The Joint Working Group considers it desirable that the next meeting be held in May 1972 in the United States. At that meeting, in addition to flight data, the following questions, among others, may be considered:

- Methods of predicting the state of the human organism during and after space flights.
- Methods of pre- and post-flight medical observations of flight-crew members.
- Recommendations to achieve the consistent use of terminology.

The final date of the meeting and its agenda shall be agreed upon through correspondence between the Working Group Co-Chairmen by March 1972.


5. The Joint Working Group recommends that the Co-Chairmen explore the possibility of an exchange of one or two appropriate specialists to work in laboratories doing

similar

similar biomedical research in space programs of the U.S. and the USSR.

The Joint Working Group suggests that the Principals approve these recommendations, in whole or in part, within 60 days from this date, after which these recommendations which have been approved shall enter into force.

Co-Chairmen:



Charles A. Berry



N. N. Gurovskiy

Date: 10-13-71

Date: 13-10-71

List of Joint Working Group Members Participating
In The
October 9 - 13, 1971, Meeting

U.S. Members:

Charles A. Berry
Co-Chairman

Harry Eagle

Harold P. Klein

Edward J. McLaughlin

USSR Members:

N. N. Gurovskiy
Co-Chairman

O. G. Gazenko

L. I. Kakurin

P. V. Simonov