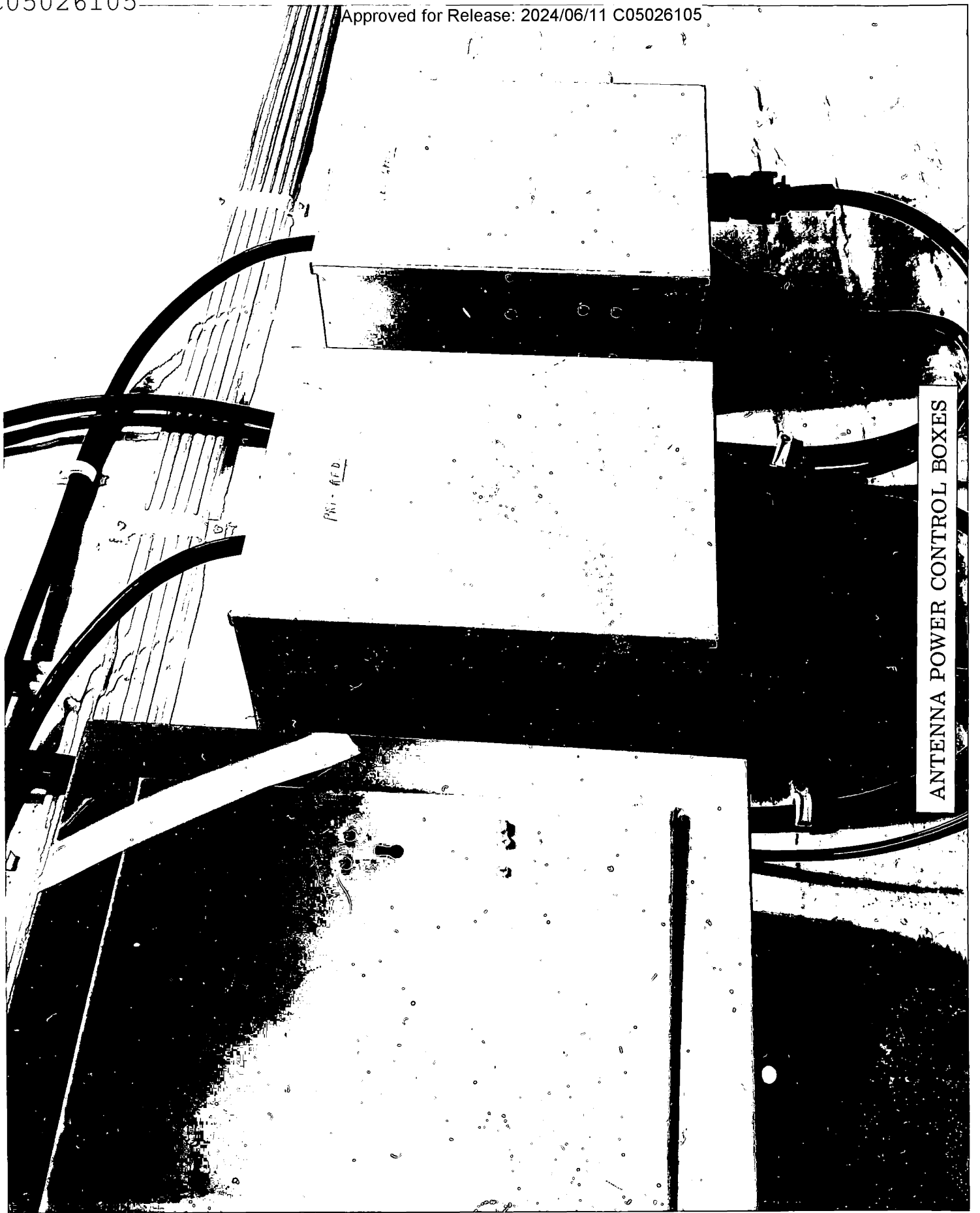


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SECONDARY (GREEN) CONSOLE



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PRIMARY (RED) CONSOLE



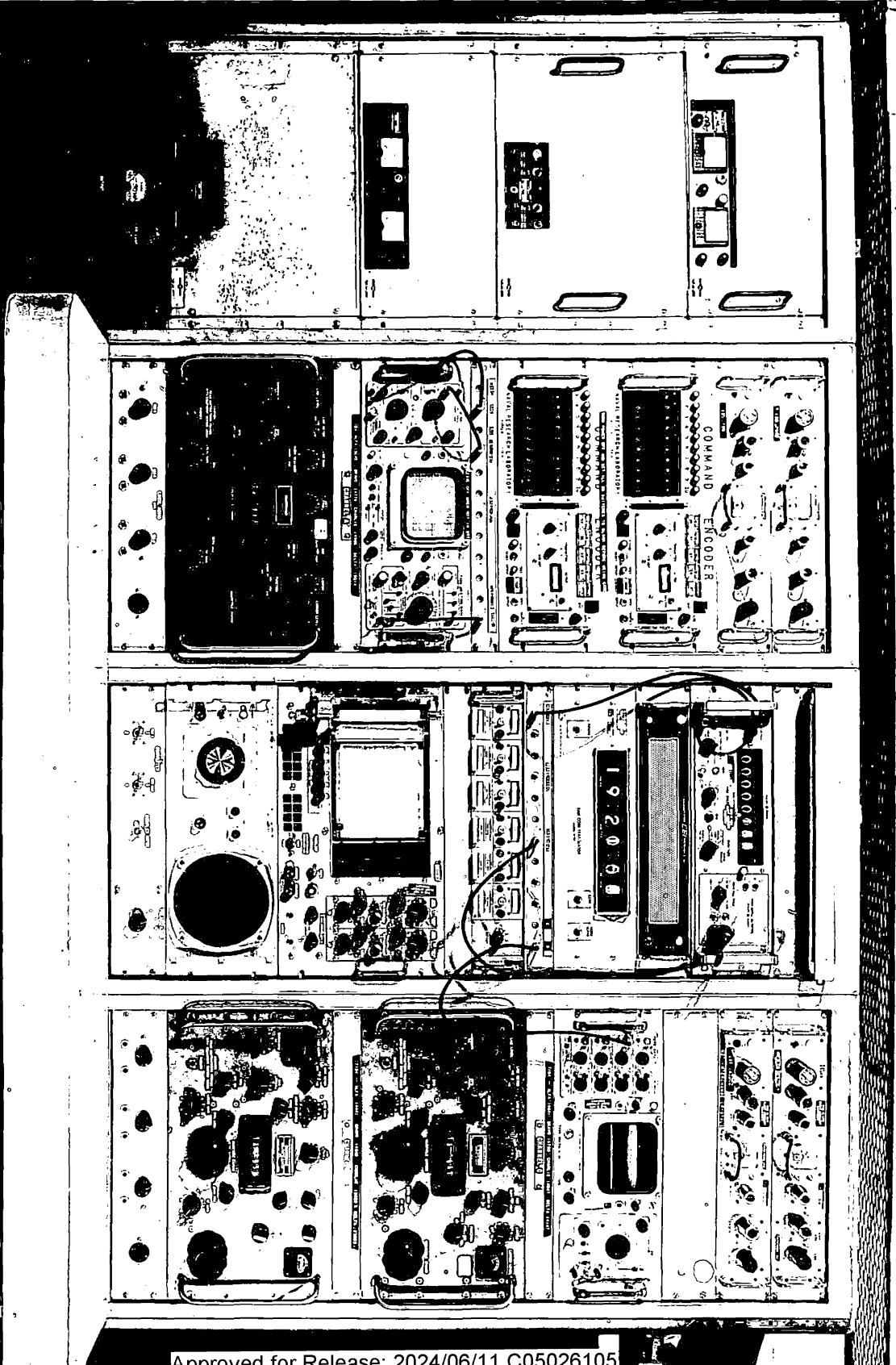
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TRANSMITTER CONSOLE



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# 4 Space Meeting Papers Canceled; State Dept. Blamed

MADRID (AP)—A spokesman for the 17th International Astronautics Congress said today four American scientific reports scheduled for presentation were withdrawn at the last minute on orders of the U.S. State Department's Office of Munitions Control.

The spokesman said the reports were withdrawn because of objections to their release by the U.S. Air Force and the National Aeronautics and Space Administration.

A member of the U.S. delegation said none of the four papers contained classified material. He said they generally were reviews of previously released material on U.S. space programs and developments.

The Soviet delegation also withdrew three papers scheduled for presentation. A Soviet spokesman said they were not delivered because the scientists involved were unable to join the Soviet delegation.

Scientists from more than 30 countries who sat through a congress session on bioastronautics today said they were disappointed at the failure of Soviet speakers to disclose new details of their cosmonauts' space walks.

There Soviet space scientists, A. A. Gurjian, A. V. Yerechin

and V. I. Ytepanozov, climaxed their report on biodynamics of extra-vehicular activities with the prediction that "the time will come when man will be able to move and work in space by his own energy without the assistance of outside forces."

Congress officials said the four banned American studies were: A survey paper on chemical rocket propulsion, by Leon Green of Washington, D.C., chief scientist in the U.S. Air Force.

A report on "Trends in Reaction Control Propulsion Systems for Satellites and Spacecraft," prepared by T. B. Carvey Jr., W. R. Jones and O. J. McCaughey of Hughes Aircraft Co. of Culver City, Calif. Carvey was waiting in Madrid to deliver the report, and congress officials said he appealed to Washington by telephone for a reversal of the ban, without success.

## Yule Viet Mail Schedules Set

By the Associated Press

Postmaster General Lawrence F. O'Brien says surface mail weighing more than 5 pounds should be mailed by Oct. 21 to reach Viet Nam by Christmas.

O'Brien also suggested mailing Viet Nam Christmas parcels weighing less than 5 pounds by Dec. 1. Regular air mail, he said, should be sent no later than Dec. 10.

O'Brien made his appeal yesterday in anticipation of a record flow of 30 million pieces of Christmas mail for American servicemen in Viet Nam.

tion Control Propulsion Systems for Satellites and Spacecraft," prepared by T. B. Carvey Jr., W. R. Jones and O. J. McCaughey of Hughes Aircraft Co. of Culver City, Calif. Carvey was waiting in Madrid to deliver the report, and congress officials said he appealed to Washington by telephone for a reversal of the ban, without success.

A paper on "Effects of Chemical Non-Equilibrium Flow Models on the Shock Layer Properties About Pointed and Blunt Re-entry Vehicles During Planetary Entry" by F. G. Gravalos, I. H. Edelfelt and C. J. Studerus of General Electric Co.

A report on "Evaluation of Candidate Heat Shield Materials for High Performance Ballistic Re-entry Vehicles," by E. A. Reinikka of General Electric Co.

In a report today, an American delegate proposed establishment of a cooperative global communications satellite system under United Nations sponsorship.

Dr. Jerome Morenoff, recognized as one of America's first "space lawyers," said in his paper that the "hodgepodge" of satellite systems planned and in existence "can only lead to

confusion, conflict and inhibition of the potential of any satellite communications system."

Preliminary steps toward a system of international cooperation have been taken through an international consortium, now consisting of almost 50 nations, he said. A handicap of the consortium, however, is the lack of representation of the Soviet bloc countries.

The antenna-like booms of two U.S. satellites collided in space 18 months ago but are still in orbit 400 miles from Earth, it was disclosed here yesterday.

Officials of the U.S. National Aeronautics and Space Administration said the collision did not indicate any danger to manned space flights.

Dr. Hilliard W. Paige of Valley Forge, Pa., told the congress that the accident, believed to be the first of its type, occurred two months after the launching

of the satellites, which weighed 100 pounds each.

The incident was mentioned in the report read by Paige, director of General Electric Co.'s missile and space division, which produced the two gradient gravity satellites for the U.S. Naval Research Laboratory