25 SEP 1959



Newy Proposal for a Photographic Payload for the DISCOVERR Setellite Progrem

HQ USAF (AFBAT, Major Floyd) Wesh 25. D. C.

- 1. Attached are copies of the following:
- a. Letter dated 16 July 1959, from Chief, Bureau of Aeronautics to Commanding Officer, U. S. Naval Air Development Center (Aeronautical Photographic Experimental Laboratory), Johnsville, Pennsylvania, subject: Project IED ADC PH-5066, Preparation of Proposal for Photographic Payload for BISCOVERER Setellite Program, establishment of.
- b. Letter dated 20 July 1959, from Chief, Bureau of Aeronautics to Commanding Officer, U. S. Naval Photographic Interpretation Center, subject: Assist in Preparation of Proposal for Photographic Payload for the DISCOVERSE Satellite Program, establishment of.
- c. Letter dated 31 July 1959, from ARDC to AFRID, subject: Photographic Payload for DISCOVERER Satellite Program.
- d. Message from AFRMD dated 15 August 1959, to ARDC, cite WDZSD-8-64-E.
- e. Letter dated 20 August 1959, from ARDC to the ARDC Regional Office, Washington, D. C., subject: Newy Photographic Payload for DISCOVERER Setellite with 1st indorsement from the ARDC Regional Office to ARBC dated 2 September 1959.
- 1. Letter dated 8 September 1959, from AMDG to AFBMD, subjects Navy Photographic Payload for DISCOVERE Satellite.
- 2. Mr. Wesley I. Grieve, ARDC Regional Office, Machington, D. C., visited AHBC on 21 September 1959, and provided this office with copies of the letters mentioned in la and lb above. Mr. Grieve stated that ANPA would be contacted directly by the Many concerning the inclusion of this payload in the DISCOVERER program.
- 3. It is requested that you establish an Air Ferce position with respect to the inclusion of this type psyload in the DISCOTERER

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Satellite for the purposes stated. It is suggested that you coordinate the position with AFCOM.

DONALD I. BURRUS Colonel, USAF Deputy Assistant DC/WS, Missiles and Military Space Systems Deputy Jammander/Weapon Systems

6 Atah 1-Ltr dtd 16 Jul 59 (C) 2-Ltr dtd 20 Jul 59 3-Itr dtd 31 Jul 59 (C) 4-MSG dtd 15 Aug 59 (C) 5-Ltr dtd 20 Aug 59 (C) 6-1st Ind dtd 2 Sep 59 (C) w/basic 1tr dtd 8 Sept 59 (C)

let Ind (AFDAT)

He USAF, Washington 25, D. C.

TO: Hq ARDC, Andrews AFB, Washington 25, D. C.

No Air Force requirement exists for a psyload of this type in the DISCOVERER program. The SANOS development is expected to satisfy this requirement early next year.

FOR THE CHIEF OF STAFF:

1 4 OCT 1959

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GEORGE B. MURROE, JR Colonel, USAF Technical Executive Office of Directorate of Advanced Technology Development

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DEPARTMENT OF THE NAVY BUREAU OF AERONAUTICS WASHINGTON 25, D. C.

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16 JUL. 1959 07419

From: Chief, Bureau of Aeronautics

To: Commanding Officer, U. S. Naval Air Development Senter (Aeronautical Photographic Experimental Laboratory)
Johnsville, Pennsylvania

Subj: Project TED ADC PH-5066, Preparation of Proposal for Photographic Payload for Discoverer Satellite Program; establishment of (U)

- 1. Priority: "B" Project Classification: Confidential
- 2. Costs are Chargeable to: Applicable allotments held by the Commanding Officer.
- 3. Desired Completion Date: 1 September 1959
- 4. Operational Objective or Requirement: Partially fulfills IO-13401-2, IO-09502 and IO-13701.
- 5. Abstract of Project: Prepare a proposal for a photographic payload for consideration in the Discoverer Satellite Program. The U. S. Naval Air Development Center, (Aeronautical Photographic Experimental Laboratory), (APEL). Johnsville, Pennsylvania will be responsible for the adequate and timely completion of the proposal. Technical assistance on the selection of cameras and preparation of a photographic interpretation system will be provided to APEL by the U. S. Naval Photographic Interpretation Center (PIC) under Project TED PIC PH-4769.2. Technical assistance concerning utilization of satellite photography has also been requested from the U. S. Navy Hydrographic Office. Direct lisison between all activities involved is authorised.

At the 23 June 1959 meeting held at the Bureau of Aeronautics, it was agreed that the following assumptions would be adhered to in the design of the payload.

- a. The camera package will be recoverable.
- b. The camera package will be stabilized.
- d. The design of the camera package should be such that it will satisfy a variety of research objectives such as determination of feasibility of using this type of photographic recommissance for oceanographic prediction, intelligence utilization and other possible scientific applications.

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Subj: Project TED ADC PH-5066, Preparation of Proposal for Photographic Payload for Discoverer Satellite Program; establishment of (U)

The proposal should be submitted in completed form including all pertinent information deemed necessary during the project. Cost estimates should also be included.

- 6. Cognisant BUARR Project Officer: MR. \$. D. GREIME, PH-46, Photographic Division, Bureau of Aeronautics, Code 1215, Extension 393.
- 7. Source of Equipment: Not applicable.
- 8. Disposal of Equipment: Not applicable.
- 9. Reports required: In lieu of a final report, submission of the proposal will be considered as completing this project. Pertinent comments and recommendations may be submitted in letter form if deemed appropriate.

Copy to:

CNO (OP-553C)

CMO (CP-922)

CNO (OP-743)

CHO (CP-761)

CHO (OP-071)

PIC

HITRO

Chief, U. S. Air Force Washington Air Research Development Office -Room 4549 Mg. Mash. 75, D. G. d. L. Libra by direction





DEPARTMENT OF THE NAVY.

Chief, Bureau of Acresentics

Commanding Officer, T. S. Revel Photographic Interpretation Conter To:

Subj: Project TED Pic PM-1769.2, Assist in Proposation of Proposal for Photographic Payload for the Discoverer Satellite Program; establishment of Fill ment of (T)

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Subj: Project TED PIC PH-4769.2, Assist in Preparation of Proposal for Photographic Payload for the Discoverer Satellite Program; establishment of (U)

If duplicating and drafting assistance is required by APEL to prepare the proposal, PIC is also requested to furnish this.

- 6. Cognisent BUAIR Project Officer: Mr. E. D. GREIME, (PH-46), Photographic Division, Bureau of Agreementics, Code 1215, Extension 394.
- 7. Source of Equipment: Not applicable.
- 8. Disposal of Engineents: Not applicable.
- 9. Reports Required: Since the PRC portion of the satellite payload proposal will be included as an integral part of the proposal, only a final letter report of completion is required. Recommendations for future work in this area may be included in this report as deemed appropriate.

to to Little

Copy to: CNO (OP-553C) CNO (OP-922H1) CNO (OP-743) CNO (OP-761) CNO (OP-07T) NADEVOEH HYDRO

Chief, U. S. Air Force Washington Air Research Development Office Bm 4549 MB, Wash. 25, D. C.

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COORDINATION SHEET

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CONTINUENT OF A TIME FROM WOZSD 8-64-E FOR ROZYC LT COL ATWOOD SUBJECT CLN PHOTOGRAPHIC PAYLOAD FOR DISCOVERER STATELLITE PROCRAM. RECKEPT YOUR 31 JULY 50 LETTER CMM SUBJECT AS ABOVE CMM WITH TWO HUMEN PROTORS ACKNOWLEDGED. TO DATE HE CONTACT HAS BEEN MADE WITH HEIS WE BY BUARR ON ABOVE SUBJECT. REGARDINE NAVY PROPOSAL AND FOR YOUR INFORMATION ONLY THE DISCOVERER SCHEDULE IS EXTREMELY CLOSE TO THAT EARLIEST POSSIBLE INCORPORATION OF ADDITIONAL VEHICLES. THE A NEW DISCOVERER MISSION SUCH AS THE NAVY PHOTO RECCE PROPOSAL WOULD BE APPLICATED TECHNICAL OF OTHER BEASONS. PARA, AS YOU KNOW CHM PRISENT PROGRAM FOR TECHNICAL OF OTHER BEASONS. PARA, AS YOU KNOW CHM TRIEF HAS RECENTLY BEEN CONCENTRATED TERMISAL SOME SEARCHING ON THE WESSEVERS PROGRAM SHOWN AND BESPITE THE RESULTS OF THE 13 AUG

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Ltr, Hq ARDC 20 Aug 59, Navy Photographic Payload for Discoverer Satellite

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2 September 1959

ARDC Reg Ofc, c/o Dept of Navy, Rm 4549, Munitions Bldg, Wash 25, D.C.

TO: ARDC LtCol. Robert G. Atwood), Andrews AFB, Wash 26, D.C.

- 1. The Bureau of Aeronautics is preparing a proposal to ARPA through CMO for an all Navy Discoverer Photographic Satellite. There is no funding at present other than for in house preparations of the proposal. This is a combined effort by the Naval Air Development Center, the Naval Photographic Interpretation Center, and the Naval Hydrographic Office by direction of Captain E. L. Kiem, Director of the Photographic Division, Bureau of Aeronautics.
- 2. The proposal is expected to be completed some time in October 1959. They plan to start development within eight or nine months. They payload will not exceed 150 lbs and will consist of one camera. The camera will have a 5-inch format with 24-inch focal length. It will be recoverable.
- 3. The specific camera has not be selected although a Fairchild Camera and Instrument Company proposal is being given serious consideration. It is understood the first satellite will not have mapping capabilities. Later ones may have this capability. It is understood, although not certain, that this study was instigated by ARPA. It is also understood that the Army was invited to submit a proposal.
- 4. A working meeting on this program will be held at PIC 0930 on 15 September 1959. Mr. Wesley I. Grieve of the Washington ARDC Regional Office plans to attend.
- 5. It is noted that the Mavy has been fully cooperative in making known to the Air Force RAD plans and programs in the Photographic area. It is evident that the Mavy may soon have its own satellite program. Air Force cooperation in the exchange of information in this area (Reconnaissance Satellites) would be appreciated and would undoubtedly save time and money for the Military.

WALTER J. MAIERSPERGER

Lt. Colonel, USAF

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Chief, ARDC Regional Office,

Washington, D. C.

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