

INSTRUCTIONS FOR COMPLETING DD FORM 1721-2 SPACE TEST PROGRAM AFTER ACTION REPORT

1.1 General Information. The Space Test Program After Action Report requests information required by management for "quick look" understanding and evaluation of a flight experiment. The After Action Report will describe the data obtained, results, use of data, and indication of potential DoD benefits to be accrued. These reports facilitate conducting long-term "DoD Benefits Accrued from STP" studies, along with becoming helpful in management and execution of the Space Test Program.

Upon spaceflight of an experiment, principal investigators and/or sponsors are required to provide experiment spaceflight results by submitting a DD Form 1721-2 Space Test Program After Action Report to the STP Program Office, SMC/TEL, as follows*:

- a.** Preliminary report not later than six months after launch.
- b.** Updated status report annually thereafter upon submission of preliminary report.
- c.** Final report six months after completion of experiment mission.
- d.** Additional reports will be provided, if necessary, upon mutual agreement between SMC/TEL and the principal investigator and/or sponsors.

(*The above-indicated schedule applies for a multiyear mission. Shorter duration missions will adjust accordingly, e.g., a 1-week mission only submits a final report, whereas, a 1-year mission submits both preliminary and final reports.) Upon SMC/TEL receipt of this report, SMC/TEL is required to complete Section 16 Mission Programmatic Data Section of DD Form 1721-2 and submit within 30 days the entire report to the Director, Space Acquisition, SAF/USA.

1.2 Security Classification. The form will be marked with a security classification commensurate with the highest classification of any single entry. For a classified form, the security classification of each block must be indicated such as (S) for SECRET. The downgrading block (Classified by:/Declassify On:) must also be completed.

1.3 Instructions for Completing Specific Items: NOTE APPLYING TO ITEMS 7 THROUGH 16: Information in some of these items may not change from the initial submission of DD Form 1721-2. In this case, indicate "No Change." Any changes from previous report submissions, however, should be highlighted.

Item 1. Experiment Title. Indicate the full descriptive experiment title as originally identified on DD Forms 1721 (Space Test Program Flight Request), and 1721-1 (Space Test Program Flight Request-Executive Summary). Nicknames, equipment nomenclatures, acronyms, etc., will not be used.

Item 2. Short Title. Indicate the experiment nomenclature, acronyms, and nicknames as originally identified on DD Forms 1721 and 1721-1.

Item 3. Experiment Number. Indicate the experiment number as originally assigned on DD Forms 1721 and 1721-1.

Item 4. Sponsor. Indicate the organization/directorate/office symbol of the sponsoring agency.

Item 5. Date of Submission. Self-explanatory.

Item 6. Date of Revision. Self-explanatory.

Item 7. Objective. Describe what was to be accomplished. If there was more than one objective, treat each one separately. If the objective was classified, an unclassified version must also be included, if possible.

Item 8. Flight Data. Indicate the launch date (YYYYMMDD) and mission duration starting from turn-on of the host payload mission as well as the operational duration of the experiment starting from initialization. Also indicate the launch vehicle (e.g., Atlas II, Pegasus, etc.), the launch site (e.g., Vandenberg Air Force Base, Cape Canaveral Air Station, etc.), and the host vehicle/platform (e.g., STEP, GPS, DMSP, SPOT, etc.). Also provide the experiment/mission orbit apogee, perigee, and inclination (in degrees). Include any other special characteristics, such as circularity, sun synchronous orbits, etc. Indicate the total experiment (only) cost. Total cost includes all funds expended by the sponsoring agency and all other agencies, businesses, etc. supporting the development of the experiment or spacecraft, i.e., prototype, hardware, staff costs, and data reduction. Indicate the experiment's weight, volume, and nominal and peak power levels. Include a descriptive picture of the experiment with physical dimensions and major component names indicated.

Item 9. Evaluation of Meeting Experiment Objectives. Evaluate how successful the experiment was in terms of meeting its original objectives. If possible, quantify in terms of a percentage the amount of objectives met. Discuss which objectives were not met and why. Also discuss whether or not the experiment was properly designed to obtain the desired data.

Item 10. Description of Data and Preliminary Results Obtained. Describe what types of data and preliminary results were obtained. Discuss any validation results, discoveries, unexpected data behavior, conclusions, etc.

Item 11. Description of Data Utilization. Discuss how the data are being (were) used.

Item 12. Plan for Data Processing and Dissemination of Results. Describe how the data will be processed and results disseminated to potential users. Include also presentations at conferences and publications in journals, etc.

Item 13. Description of Potential Benefits. Describe the benefits that were (or can be) derived from the obtained data. Consider the following questions as a guide in the development of your narrative, as applicable.

- 1) Where will the experiment results ultimately lead to in terms of improved military subsystems, atmospheric models, systems performance, etc.?

- 2) What is the relation to exploratory development or operational systems development programs?
- 3) For hardware developments and demonstrations, forecast results accruing, including potential operational applications or improvements in present operational systems performance.
- 4) For exploratory development efforts, forecast the improvement in technology that is anticipated. Discuss how the proposed technology will be better than existing technology.
- 5) What is our present knowledge or capability in this area? What is the current state-of-the-art?

Item 14. Follow-on Plans. What, if any, follow-on work is planned because of the results obtained from this experiment? What is the next step once this experiment is flown/completed and/or the data is processed? Identify additional spaceflights anticipated. Does the present experiment require more than one flight?

Item 15. Experimenter Agency Data. Include the signature from the Principal Investigator who was the primary contact to STP for the experiment. The name block should include rank (if military) or title. Include full mailing address and commercial and/or DSN phone numbers.

Item 16. Mission Programmatic Data (To be filled in by the STP Program Office). Provide the mission number and name that included this particular experiment. Indicate the total cost incurred by the Space Test Program (includes satellite procurement, integration, launch and mission operations support, and data retrieval costs but excludes STP Program Office and Aerospace personnel costs), and the name of the OPR/Prime Integrating Contractor(s) for this mission. List the companion STP experiments (experiment number and title), if any, that accompanied this experiment on this mission and the total payload weight, volume, and power requirements. A signature is also required from the authorized STP Program Office official. The name block should include rank. Include a description of the mission and a picture of the space vehicle system configuration with physical dimensions and experiments indicated. Attach transparencies/color photographs, if available. Indicate any spacecraft and/or experiment anomalies.