

3/30/66

Functions: Natl Range Div ✓  
Functions: SSD/SCF

MEMORANDUM OF AGREEMENT

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BETWEEN

HEADQUARTERS, NATIONAL RANGE DIVISION

AND

HEADQUARTERS, SPACE SYSTEMS DIVISION

REGARDING

ON-ORBIT TEST SUPPORT RESPONSIBILITIES AND RELATIONSHIPS

I. INTRODUCTION AND PURPOSE:

A. Headquarters, National Range Division (Hq NRD) has been established as the Central Planning Authority as the result of DOD directive of November 16, 1963 (see II A below), for the combined planning of ICBM and space vehicle launch area range instrumentation and satellite on-orbit control facilities. This "Combined Planning" responsibility includes the long range planning necessary to meet future ICBM and satellite test support needs. The objective of this planning is to insure that the world-wide network of stations, ships and aircraft are compatible in areas such as communications, data transmission systems, telemetry frequencies and formats, timing, coordinate systems, computer programs and equipment to be used for integrated network operations.

B. The Space Systems Division (SSD) is responsible for acquisition of space systems and related test planning. It also conducts the launch and testing of assigned space systems and performs a combined test and test support function through its Satellite Control Facility (SCF).

C. The Satellite Control Facility (SCF) of the SSD is the agency responsible for management and operation of a world-wide satellite and control network in accordance with DOD directive of 25 April 1964 (see II B below). As a part of its responsibilities the SCF will develop on-orbit test support plans for assigned space programs and also develop plans for acquisition of resources for the SCF.

- Not signed  
as of 15 Apr 66

D. Hq NRD, as the Central Planning Authority, will normally delegate on-orbit test support planning for DOD programs to the SCF. Planning for on-orbit test support of other than DOD programs will be assigned by Hq NRD to the Eastern Test Range (ETR), the Western Test Range (WTR), or the Satellite Control Facility, based on which can best support the program needs.

E. The purpose of this Agreement is to establish the relationships and responsibilities of the SSD and the NRD which will govern in the joint planning and development of on-orbit test support resources. This Agreement implements and establishes arrangements as set forth in references II A through II E below.

## II. REFERENCES

A. Secretary of Defense Memorandum, subject: "Management and Organization of DOD Ranges and Flight Test Facilities," 16 November 1963 (C).

B. Secretary of Defense Memorandum, subject: "Management and Organization of DOD Ranges and Flight Test Facilities," 25 April 1964.

C. Hq AFSC Operations Order 64-3, 11 May 1964.

D. Hq USAF letter to Hq AFSC, subject: "Organization of Satellite Control Resources of the NRD and SSD," 27 August 1964.

E. Hq AFSC letter to SAFUS, through Hq USAF (AFCAV), subject: "Organization of Satellite Control Resources of the NRD and SSD," 23 October 1964.

## III. DEFINITIONS

A. Launch Range: An instrumented launch and boost flight tracking, telemetry, control and data acquisition network of stations, ships and aircraft used to support ICBM and space program tests and operations.

B. Launch Range Support: Tracking, telemetry, data acquisition, processing and associated services needed to support ICBM tests and operations and space program tests during the launch phase which normally terminates upon the attainment of orbital velocity.

C. On-Orbit Test Support: Tracking, telemetry, control, data acquisition, processing and associated services needed to meet space program tests and operations after achievement of orbital velocity.

*Any other  
references  
desired  
may be  
added*

D. Test Planning: Planning conducted by the System Program Office (SPO) to insure that adequate and comprehensive tests verify systems design and performance. It includes establishment of test support, and later, operational support requirements to be satisfied by launch ranges and on-orbit test support agencies. This planning also includes the timely expression of these requirements consistent with the AF and AFSC 375 series regulations.

E. Test Support Planning: Planning conducted by the launch ranges and on-orbit test support agencies to identify and commit test support resources to satisfy the test plan requirements for launch, on-orbit and recovery support. This planning includes the timely preparation of test support plans in response to test plans and schedules prepared by the System Program Office(s).

#### IV. RESPONSIBILITIES

##### SSD WILL:

A. Plan, develop, operate, maintain and control the Satellite Control

Facility. Provide SCF support based on requirements levied directly on the SCF from SSD, SAFSP, and MOL programs and from NRD for other agencies.

B. Consider and use NRD resources where appropriate in providing on-orbit test support. Provide timely notice to Hq AFETR or Hq AFWTR when ETR or WTR instrumentation is needed to augment SCF supported programs. Furnish information copies of such requests to Hq NRD.

C. Invite Hq NRD participation in the preparation of SSD plans for development and acquisition of additional SCF on-orbit test support resources and submit such plans to Hq NRD for approval.

D. Submit SCF development plans, PCP's, Five Year Plan and other plans for procuring instrumentation costing in excess

##### NRD WILL:

A. Plan, develop, operate, maintain, and control the Eastern Test Range and the Western Test Range. Coordinate planning and development of the SCF.

B. Consider and use SSD resources where appropriate in providing launch range support and on-orbit test support. Provide timely notice to the SCF when SCF support is needed to augment NRD resources. Furnish information copies of such requests to Hq SSD.

C. Provide representatives to participate in SSD development and acquisition planning. Review and approve all such plans as a function of the Central Planning Authority.

D. Incorporate SSD planning information in the NRD Range Package Program and other NRD planning

**IV. RESPONSIBILITIES (Cont.)**

of \$250,000, to Hq NRD for coordination and forwarding to the AFSC Deputy Commander for Global Range for review and approval.

D.1. Incorporate NRD planning information in SSD planning documents as appropriate.

E. Provide SCF support to DOD organizations and other Federal agencies when requested by Hq NRD, to the extent that resources, schedules and priorities permit.

F. For all space programs and projects assigned by NRD, prepare detailed on-orbit test support plans and coordinate such plans, including transition from launch support to on-orbit test support, with Hq NRD.

G. Work directly with test agencies and launch ranges in cases where Hq NRD has designated the SCF to provide on-orbit test support.

H. Invite authorized Hq NRD individuals to participate in program requirements reviews and support planning conferences.

I. Insure that SSD SPO's request Hq NRD participation in test planning and test support planning leading to the preparation of Preliminary Technical Development Plans (PTDP), Proposed Systems Package Plans (PSPP), and System Package Programs (SPP), and coordinate these plans with Hq NRD prior to submission to Hq AFSC.

documents as appropriate.

D.1. Submit NRD development plans, PCP's and other plans for procuring instrumentation unique to SSD programs, costing in excess of \$250,000, to Hq SSD for coordination.

E. Assign to SSD the on-orbit test support workload of DOD organizations and other Federal agencies as appropriate. Provide sufficient guidance and information, including funding arrangements, to permit direct SCF contact with the agencies involved.

F. Review on-orbit test support plans submitted by SSD and effect necessary coordination with associated planning activities of the NRD.

G. Advise SSD of test agency and launch range contacts for test programs assigned by Hq NRD to the SCF for on-orbit test support.

H. Provide representatives to participate in SSD program requirements reviews and support planning conferences.

I. Provide test planning and test support planning information during the preparation of SSD Preliminary Technical Development Plans (PTDP), Proposed Systems Package Plans (PSPP) and System Package Programs (SPP), and provide timely responses to such plans when submitted to Hq NRD for coordination.

IV. RESPONSIBILITIES (Cont.)

J. Obtain Hq NRD coordination on all requests for foreign operating rights prior to forwarding to Hq AFSC under AFR 11-5/AFSC Sup 1. Submit all plans for proposed amendments and local implementation of foreign agreements involving SCF stations to Hq NRD for coordination.

J. Provide guidance and assistance to SSD on matters involving international affairs and agreements.

K. Provide on-orbit support for FTD and NORAD.

V. IMPLEMENTATION

A. This Agreement will not change existing arrangements pertaining to on-orbit test support of programs now being conducted nor will this Agreement take precedence over AFSC, USAF, SAF, and DOD directives.

B. This Agreement will be implemented as soon as possible.

C. This Agreement supersedes all previous Agreements between NRD and SSD relating to on-orbit test support responsibilities and relationships.

VI. REVIEW AND AMENDMENTS

This Agreement will be reviewed annually by the parties hereto to determine whether it needs revision or otherwise requires change or termination. Changes to this Agreement will be made by written amendment hereto.

APPROVED:

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L. I. DAVIS, Lt General  
Commander  
National Range Division

\_\_\_\_\_  
B. I. FUNK, Maj General  
Commander  
Space Systems Division

Date \_\_\_\_\_

Date \_\_\_\_\_