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The Defense Special Missile and Astronautics Center (U)

Tucked into the inner southeast corner of the second floor of the NSA main operations building is the Defense Special Missile and Astronautics Center (DEFSMAC), a joint activity involving elements of the National Security Agency (NSA) and the Defense Intelligence Agency (DIA) which keeps an ever-watchful eye on space and missile activity. Even though access to the DEFSMAC work spaces is restricted, this article attempts to share with Spectrum readers a reasonably comprehensive insight into the mission, organization, and work processes of the Center.

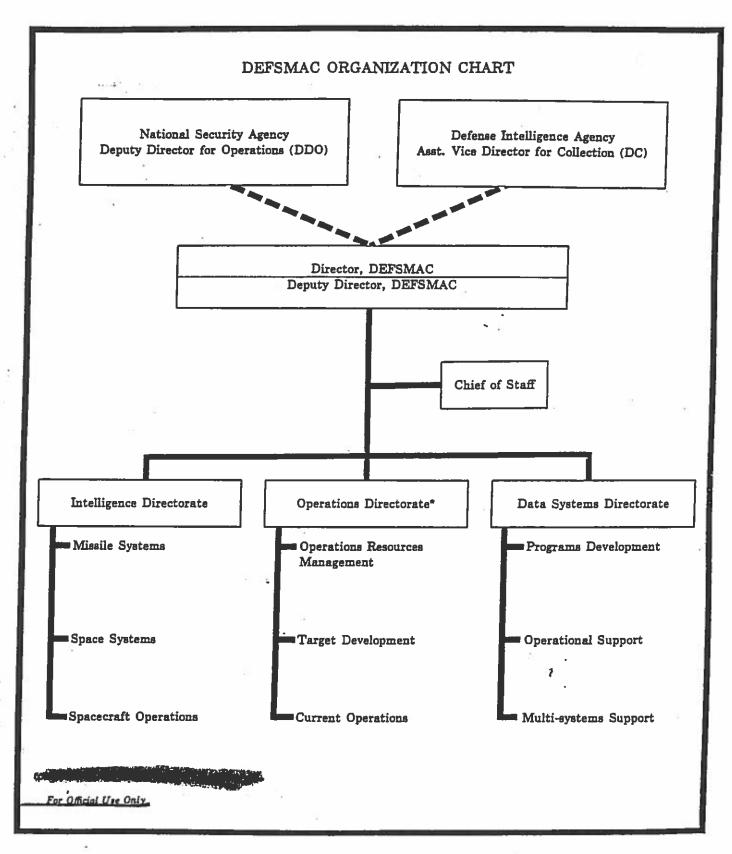
(U)681. Origins. DEFSMAC was established in April 1964 by a Department of Defense directive, signed by then Secretary of Defense, Robert Mc-Namara. The directive provided for a "management arrangement to (a) task and technically control DoD missile and space collection and processing activities directed against missile and space activities and (b) provide current analysis and reporting of missile and space events." Since World War II, the Soviet Union had been conducting an everincreasing research and development effort into the _ military use of missiles, and, as first evidenced by SPUTNIK I in 1957, the use of satellites in space. Paralleling this growth in Soviet R&D were increases in the number and level of sophistication of United States Sigint and non-Sigint intelligence systems directed against these missile and space launches. Although directed primarily at missile and space these various collection activities were not always closely coordinated. Property of the second of the second of the second of the second of

Department executives often received more report than there were collectors, each presenting only a fragmentary, and sometimes contradictory, view of the event. DEFSMAC was created in an attempt to sten this tide and give the total DoD collection effort some coordinated guidance (and thus optimize collection resource use) and to provide centralized and authoritative reporting to the United States community. DEFSMAC was to be formed from elements and personnel from DIA and NSA. It was also to carry out previous responsibilities in reporting and collection guidance/tasking of DIA and NSA for

Functional Design. The functional design and work procedures for DEFSMAC are not unlike those of an information clearinghouse. From most of the collection resources that we work with and from a number of national intelligence, scientific and technical (S&T) centers, DEFSMAC receives a constant flow of information related to missile and space activities.

It is the Center's job

to sort all of this information and take appropriate action on it.



Organization. As shown in the DEF-SMAC organization chart, the director is responsible equally to the DIA-DC (Deputy Director for Collection) and NSA-DDO; he may be appointed from the staff of either Agency. The Directorate is supported by an Executive Staff. Employees of both NSA and DIA are assigned without regard to parent Agency affiliation to the Staff or to one of the three Directorates shown. (S-CCO) (IA) The Operations Directorate contains a 24-hour Watch Center which maintains continuous

Watch Center is charged with

to include an initial mission assessment. Operations also maintains collection management liaison with each of the cooperating collectors, providing them continuous mission support. Although DEFSMAC does not "own" any collectors. per se, each of the collectors has been directed by its parent organization to respond to the guidance and suggestions of the DEFSMAC analysts and Mission Director on time-critical mission actions.

The Intelligence Directorate performs the analysis and reporting, as appropriate, of all eventrelated information received at the DEFSMAC This reporting represents the Intelligence Community's initial assessment and evaluation of an event and serves the Community until the scientific and technical centers complete their long-term study of the particular event or series of events. These reports satisfy the DEFSMAC responsibility for "intermediate-term" analysis and post-event reporting.

The Data Systems Directorate provides software support to the computer operations which underlie most DEFSMAC activities, including systems interfaces with several NSA computer systems, especially those dedicated to time-sensitive processing. It coordinates hardware acquisition, installation, and maintenance; provides user training; and maintains management liaison between DEFSMAC and NSA for coordination of future hardware and systems requirements. The Data Systems people develop and maintain the Center's functional data bases (11)(8-690) and software, supporting information storage and retrieval, data communications, astrodynamic, and computer graphics applications. At this writing, Data Systems is busily involved with a major rewrite of software as DEFSMAC converts its data processing from older systems 🕍 to the newer

Targets. As mentioned earlier or main effort is directed toward the (S=CCO, Field Resources. The variety of ser sors with which we work provides one of the mos

varied and interesting aspects of the Center. W

receive conventional Sigint support from

aircraft which flies from Shemya, Alaska, on missions off the t the advanced range instrumentation ship (ARIS), which deploys to and Air Force assets which as well as other, more sophisticated, national collection resources interact with our resources and provide valuable input to our work. W) (6-cco)

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are also within our field of interest and charter. The prolonged and on-going military use of space has caused us to expand our efforts in this area. During a manned space event we operate a DEFSMAC Space Operations Center which continuously performs

To meet this need,

with support from NSA, DIA, and elsewhere, we established an enhanced space center in DEFSMAC for the duration. Throughout the flight, from launch to touchdown.

(2) (5) Conclusion. All the elements of DEF-SMAC combine to create an interesting and dynamic work environment and to perform functions which space activities. From the beginnings of DEFSMAC 1964 through the current year,

have presented challenging and ever-growing intelligence target. The demanding target plus the technical complexity of or numerous collection assets make DEFSMAC an exciong and rewarding place to work. The round-the-close efforts we put forth seem well justified when we revie the information results we obtain. With the increasing missile and space activities of the it looks like DEFSMAwill continue to serve the Intelligence Community for many years to come.

(U) Mr. Bernard has been Director of the Defense Special Missile and Astronautics Center since June 1980. He was first assigned to NSA as a computer maintenance supervisor in 1953 while serving as a second lieutenant in the U.S. Air Force. In 1955 he was selected to participate in the first NSA Management Intern Program. His subsequent assignments include several positions in the research and engineering organization, project manager in the Office of Special Program Management, chief of the Office of Space, Microwave, and Mobile Systems, and Deputy Group Chief for the Line-of-Sight Systems Group. Mr. Bernard

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