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CONTRACTS FOR SATURN
UPPER STAGES S-IV and S-V

I. STAGE S-IV

In view of the size and national importance of the SATURN project, open bidding on the SATURN Stage S-IV cannot be avoided. The following steps will be taken for contractor selection.

1. Source Selection

During the next week, a letter of invitation to a Bidders Conference (to be held in Huntsville on 26 and 27 January 1960) will be sent to 20 prospective contractors for stage S-IV. The 20 contractors listed on Appendix III (attached) have been selected from a register of missile contractors and component contractors and are believed to include every U. S. plant that could conceivably handle the job. The invitation letter to the Bidders Conference will enumerate some of the major "weighing" factors which will be used in the ultimate selection of the contractor. It is believed that this procedure offers the advantage of giving a substantial number of contractors a chance to decide for themselves whether or not they care to prepare a costly proposal in view of their possibly dubious chances to win the contract.

During the Bidders Conference all pertinent technical and contractual information with regard to the intended S-IV stage contract will be made available to the participating companies. The bidders will then be allowed a maximum of five weeks for preparing their proposals. Closing date for submission of proposals will be 29 February 1960.

Proposals will be opened on 1 March 1960 and first turned over to the Technical Evaluation Team (Appendix I, para 1). This team will utilize certain technical "coarse criteria" for the preliminary screening of the submitted proposals. It is expected that this preliminary screening will eliminate from further consideration all but approximately five or six proposals. On approximately 10 March 1960 the remaining proposals will be turned over to the Business Evaluation Team (Appendix I, para 2). Both the Technical and Business Evaluation Team will use a previously prepared scoreboard for evaluating the technical merits. The Business Evaluation Team will evaluate the proposals from the standpoint of cost, company resources, management, etc. Both evaluation teams will finally submit their findings to the Selection Board (Appendix I, para 3). A report with a definite recommendation for contractor selection will be submitted by the Selection Board to the Administrator, NASA, for signature on 1 April 1960.

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2. Type of Contract

The contract for SATURN Stage S-IV will be of the cost plus fixed fee type with the possible addition of an incentive compensation plan.

3. Contract Administration

Overall administration of Stage S-IV contract will be the responsibility of the Project Director, SATURN Vehicle Systems Office, a member of the Development Operations Division (Appendix II). The contract will be let by the Industrial Division, ABMA, through the Ordnance District in which the selected contractor is located, and the Army contracting officer will direct the work performed under the contract. In addition, the Ordnance District will provide administrative services such as auditing, inspection, facilities, etc. The Development Operations Division liaison representatives, in residence at the contractors plant, act as technical supervisors of the contract. They will provide direction and assistance to the contracting officer in matters such as incorporation of engineering changes, establishment of procedures, delivery schedules, etc. These liaison representatives will also be responsible for the technical and systems coordination between the contractors, ordnance district, Air Force and Army representatives, and the Development Operations Division.

4. Engines

Four Pratt & Whitney XLR-115 engines uprated to 20,000 pounds of thrust will power the S-IV stage. These engines will be government furnished equipment to the stage contractor. In all likelihood two separate contracts will be let by the Industrial Division, ABMA, to the engine contractor: one for delivery of a certain number of engines (flight hardware, ground test hardware and spares), and one for the development work involved in the uprating of the engine from 15,000 to 20,000 pounds of thrust. Both contracts will be of the cost plus fixed fee type.

The uprating of the XLR-115 engine will be technically supervised by representatives of the Development Operations Division, in residence at the Pratt & Whitney plant near West Palm Beach, Florida. The contract administration methods will be identical to those applied in the stage contract.

II. STAGE S-V

The SATURN Stage S-V is nearly identical with the standard CENTAUR. Because of their role as prime contractor of the ATLAS-CENTAUR project Convair is a logical "sole source." The contract for S-V will be of the

ost plus fixed fee type, but an incentive compensation plan may be included. The contract will be administered in the same manner as the S-IV contract.

Engines

Two standard Pratt & Whitney XLR-115 engines, not uprated, will be utilized to power stage S-V. These engines will be supplied to Convair as government furnished equipment. The contract will be of the cost plus fixed fee type with administration of the contract identical to that of the Stage S-IV engines.

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APPENDIX I

1. The Technical Evaluation Team* will consist of the following members:

- a. Mr. W. Mrazek - Director, Structures & Mechanics Laboratory -
Chairman
- b. Mr. E. Hehlebrand - Structures & Mechanics Laboratory
- c. Mr. H. Koelle - Structures & Mechanics Laboratory
- d. Mr. D. Driscoll - Test Laboratory
- e. Mr. E. Neubert - Systems Analysis & Reliability Laboratory
- f. Mr. F. Brandner - Guidance & Control Laboratory
- g. Mr. A. Setler - Missile Firing Laboratory
- h. Mr. M. Smith - Saturn Vehicle Systems Office
- i. Representative from Office of Vehicle Development Operation, NASA

2. The Business Evaluation Team* will consist of the following members:

- a. W. C. Kirsch - Director, Industrial Division, ASMA -
Chairman
- b. Mr. L. K. McElroy - Industrial Division, ASMA
- c. Mr. John A. Miller - Industrial Division, ASMA
- d. Mr. Douglas M. King - Legal Office, ASMA
- e. Mr. George N. Constan - Development Operations Division
- f. Mr. Ralph E. Cushman - Procurement & Supply Division, NASA

and

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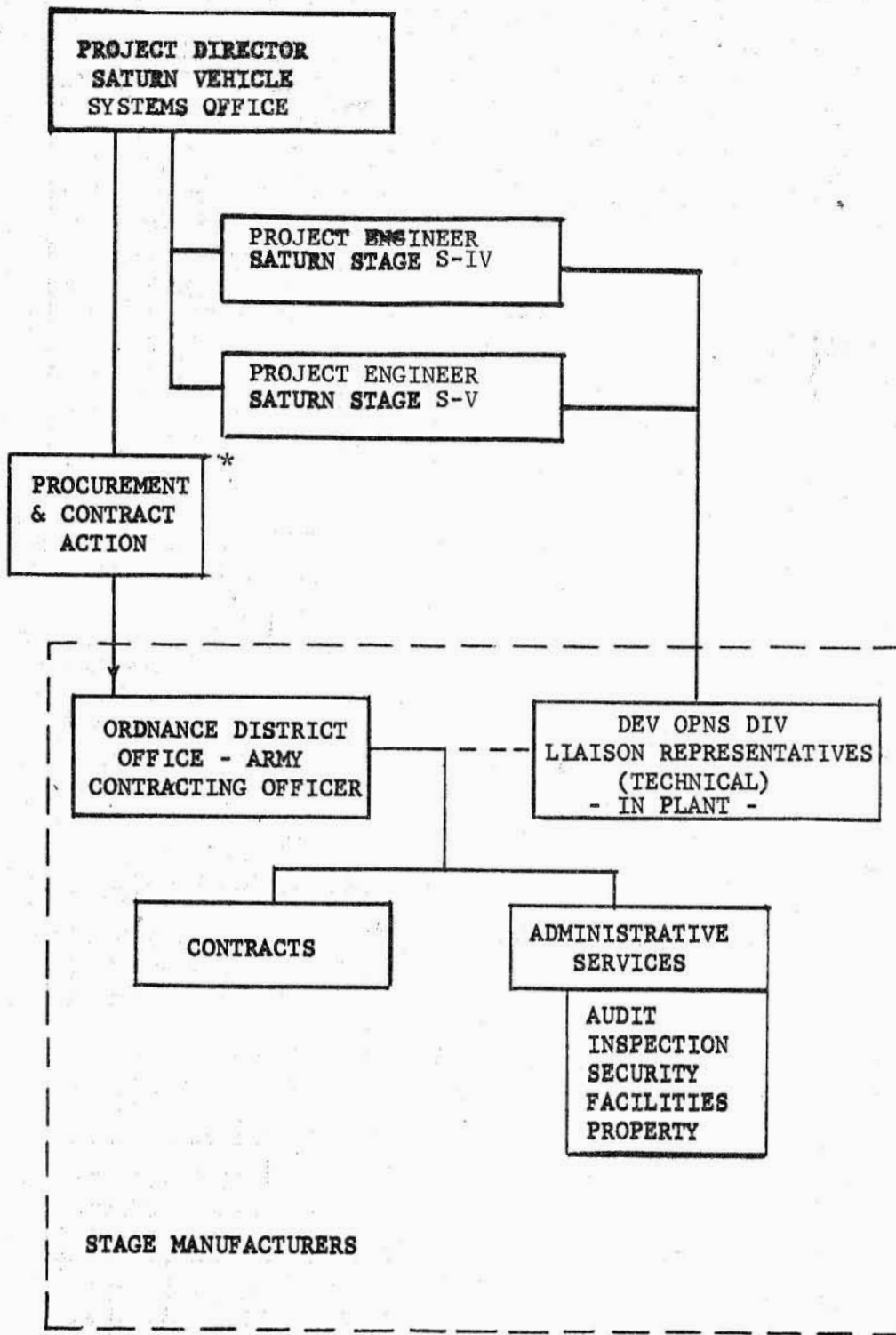
APPENDIX I (Continued)

3. The Selection Board will consist of the following members:

- a. Dr. O. H. Lange - Project Director, SATURN Vehicle Systems Office-Chairman
- b. Mr. Ernest Brackett - Chief, Procurement & Supply Division, NASA
- c. Mr. Milton W. Rosen - Assistant Director for Launch Vehicles, Office of Vehicle Development Opns, NASA
- d. Dr. Wernher von Braun - Director, Development Operations Division
- e. Dr. E. Rees - Deputy Director, Development Operations Division
- f. Mr. Horace R. Lowers - Deputy Director, Industrial Division, ABMA

* The Technical and Business Evaluation Teams will also have consultants and advisers from other government agencies.

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*At present, this function is being administered by the Industrial Division, ABMA.

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APPENDIX III

Major missile contractors; developers, airframes, guidance systems, power plants. Prime contractors and subcontractors.

1. Avco Manufacturing Corporation
2. Bell Aircraft Company
3. Bendix Aviation Corporation
4. Boeing Airplane Company
5. Chance Vought Aircraft, Inc.
6. Chrysler Corporation
7. Convair
8. Douglas Aircraft Company
9. Firestone Tire and Rubber Company
10. General Electric Company
11. Hughes Aircraft Company
12. Lockheed Aircraft Corporation
13. The Martin Company
14. McDonnell Aircraft Corporation
15. North American Aviation, Inc.
16. Northrop Corporation
17. Raytheon Company
18. Sperry Rand Corporation
19. United Aircraft Corporation
20. Western Electric Company

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