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ORGANIZATION, PROGRAMS, AND ACTIVITIES OF THE TECHNICAL SECTIONS NORTRONICS-HUNTSVILLE

1 MAY 1968

NORTRONICS - HUNTSVILLE

NORTHROP CORPORATION

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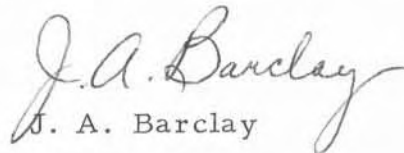
from the desk of

J. A. BARCLAY

26 September 1968

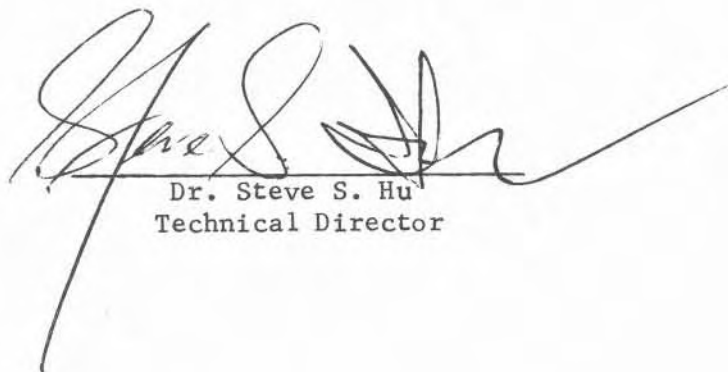
Mr. David L. Christensen;

The information on technical
publications issued by Nortronics-
Huntsville is contained in Section IV
of this publication.


J. A. Barclay

ORGANIZATION, PROGRAMS, AND ACTIVITIES
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TECHNICAL SECTIONS
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Dr. Steve S. Hu
Technical Director

**NORTRONICS - HUNTSVILLE
HUNTSVILLE, ALABAMA**

FOREWORD

This brochure is intended to depict the present status of the technical activities of Nortronics-Huntsville as of the date indicated. It is based on all currently available information. It is subject to periodic revision as additional pertinent information becomes available.

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SECTION I

INTRODUCTION & BACKGROUND

1.1 NORTHROP CORPORATION

1.2 NORTRONICS-HUNTSVILLE

SECTION I

INTRODUCTION & BACKGROUND

1.1 NORTHROP CORPORATION

Northrop Corporation was founded in 1939 and, during the 28 years of its existence, has experienced a steady growth. At the present time, the Corporation employs over 20,000 personnel with over 5,000,000 square feet of engineering and research facilities. The company is organized as a line-managed corporation, designed to provide an advantageous combination of strength and flexibility along with sharp delineation of authority and responsibility. The top management of the Corporation is the Office of the President, which consists of Mr. Thomas V. Jones, President and Chief Executive Officer. The Office of the President, two Senior Vice-Presidents, and their corporate staff officers comprise the Corporate Headquarters. The operations of the company are executed by the line divisions as shown in Figure 1-1 under the direction of their respective General Managers. The General Managers, as Corporate Vice-Presidents, participate in the formulation of policies and plans of the Corporation and in the exploitation of its resources, wherever located, for the most effective discharge of its contractual commitments.

1.2 NORTRONICS-HUNTSVILLE

Nortronics-Huntsville, under the direction of John A. Barclay, was established in November 1962 as an advanced space research and technology department of Northrop Corporation. A chart depicting the current Nortronics-Huntsville organization is presented in Figure 1-2. Prior to his retirement, Major General John A. Barclay was Deputy Commanding General of the U. S. Army Ordnance Missile Command at Redstone Arsenal, Alabama. He was Commanding General of the Army Ballistic Missile Agency during the development of the Jupiter and Pershing Missiles and the initiation of the Saturn booster program.

The Nortronics-Huntsville management, research, and engineering facilities are housed in a 40,000 square foot, two-story building at 6025 Technology Drive in the Huntsville Research Park. Nortronics-Huntsville has access to the

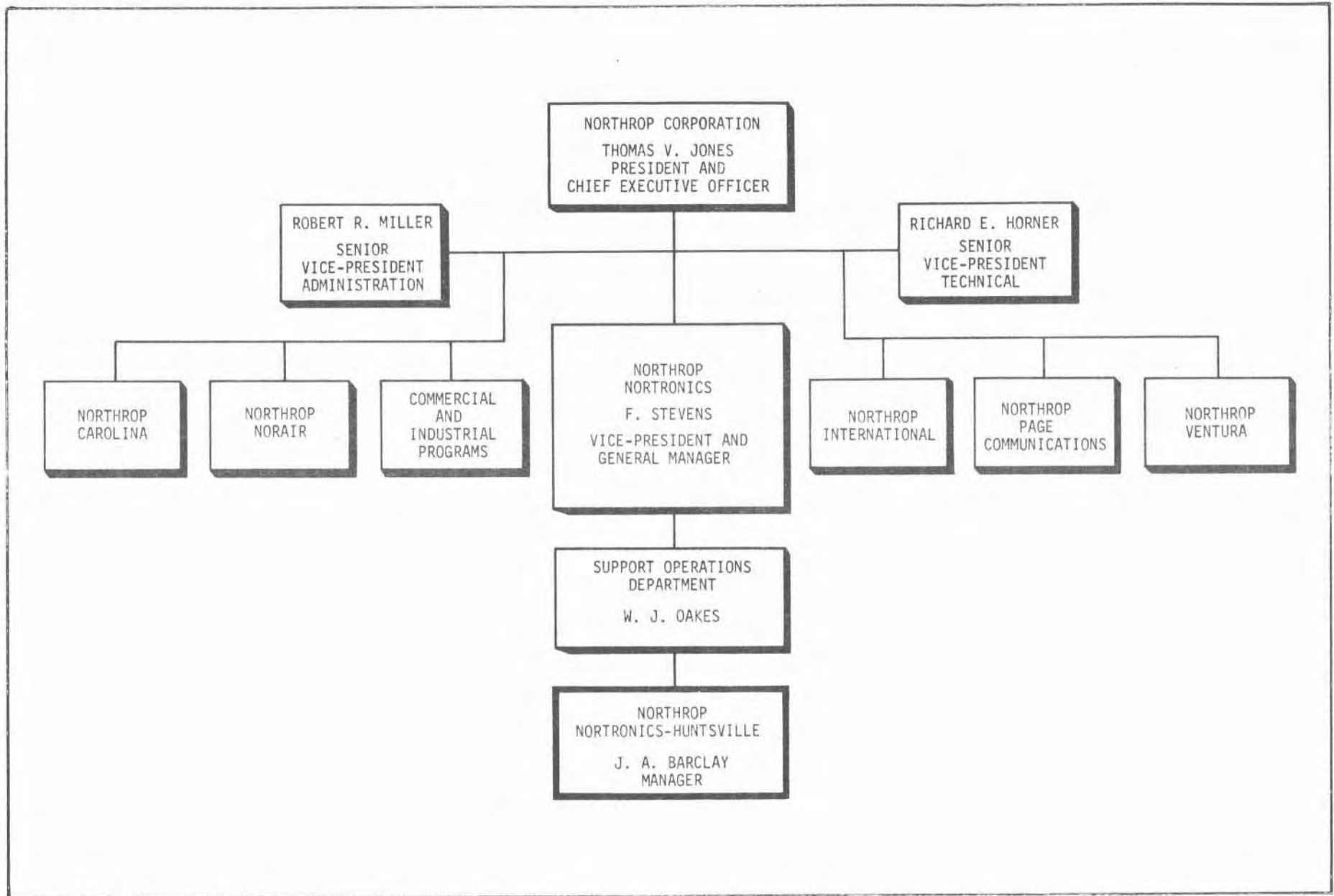


Figure 1-1. NORTHROP CORPORATION ORGANIZATION CHART

Dr. G. M. Jones, a Member of the Technical Staff of the Astrodynamics Section, is presently involved in a study to determine methods of entering atmospheres of the major planets with a scientific probe. Prior to joining Northrop, Dr. Jones did contractual work for Space Craft, Inc., involving analyses of various power systems and studies of lubrication in a space environment, in-space sterilization, and cryogenic contamination sensors involving nuclear radiation measurement techniques. At the University of Alabama, Dr. Jones was a graduate assistant, responsible for the mathematical simulation of a Knudsen Cell to study the effect of pertinent variables on the error between actual and measured vapor pressures of substances tested. He also taught senior engineering students a special problems course in chemical engineering relative to the design and manufacture of an instrumented liquid-level-control facility.

Dr. B. L. Cline, a Member of the Technical Staff of the Sciences Section, is presently responsible for an investigation to establish the effects of dust on a radiator surface in a lunar environment. He is also associated with the University of Chattanooga as Coordinator of the new Graduate School of Engineering, and Associate Professor of Mechanical Engineering. He has been associated with Combustion Engineering, Inc., Kreisinger Development Laboratory, and the Lawrence Radiation Laboratory. His work involved experimental studies in the fields of heat transfer, fluid dynamics, and thermodynamics. He taught thermodynamics at Georgia Institute of Technology. Dr. Cline was an NDEA Fellow and a Ford Foundation Fellow.

Dr. J. G. Goree, is an Engineer of structural dynamics for the Dynamics Analysis Section. He is also an Assistant Professor of Engineering Mechanics at Clemson University. He has conducted studies on the interaction of fuel oscillations with elastic fuel research on Army Contract No. DA-01-021-ORD-11878, and with Rohm & Haas, where he obtained approximate solutions for the stresses in thick-walled elastic cylinders using numerical methods, and was involved in experimental work in photoelasticity.

Dr. R. L. King is a Member of the Technical Staff in the Sciences Section. He is currently involved in the application of numerical techniques, using high-speed computers, to the prediction of atmospheric sciences projects to develop numerical weather prediction and general wind circulation techniques.

