

**MEMORANDUM OF UNDERSTANDING
BETWEEN THE
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
AND THE
U. S. AIR FORCE
ARNOLD ENGINEERING DEVELOPMENT CENTER
AND THE
U. S. DEPARTMENT OF ENERGY
OAK RIDGE OPERATIONS**

ON

**COOPERATION, COORDINATION, AND UTILIZATION
OF FEDERAL FACILITY CAPABILITIES**

ARTICLE 1. PURPOSE

This Memorandum of Understanding (MOU) is entered into by the National Aeronautics and Space Administration, George C. Marshall Space Flight Center (NASA MSFC), the U. S. Air Force Arnold Engineering Development Center (USAF AEDC), and the Department of Energy Oak Ridge Operations (DOE ORO) (jointly referred to as the "Parties"). The purpose of the agreement is to facilitate cooperation and coordination and utilization of complementary federal facility capabilities. This MOU will enhance the working relationship between the Parties and is intended to facilitate collaborative research and development, test and evaluation, technical support, facility technology demonstration and utilization, and related activities that are mutually beneficial to the missions of the Parties. This MOU provides for cooperation between MSFC facilities in Huntsville, Alabama, AEDC facilities at Arnold AFB, Tennessee, and the DOE ORO facilities in Oak Ridge, Tennessee. This cooperation may include local, state, and other Federal agencies; colleges and universities; industry; and public interest groups, as the Parties agree and as permitted by law and regulation.

ARTICLE 11. RATIONALE

It is recognized that MSFC, AEDC and DOE ORO have certain common interests in conducting research, development, test and evaluation, and technology demonstration and utilization activities; in technology transfer and economic development; and in reuse of government assets on a continuing basis. All Parties have responsibilities for conducting basic/applied research, developing new technologies, and operating unique facilities. Collaboration on research, development, and test and evaluation activities wherever and whenever appropriate will help ensure that significant technologies are developed and transferred to the private sector. The Parties plan to actively search for opportunities to conduct cooperative analytical and experimental test programs for the mutual benefit of the Parties; and to seek more effective transfer of government technologies and use of government assets to enhance effectiveness of government operations and to promote the regional and national economy.

Areas of mutual interest include, but are not limited to, technologies having application to: aerospace; aerodynamic, hypersonic, space simulation, and radiation effects test and evaluation; energy and energy-related research and development; transportation; advanced materials and material processes; fundamental science; environmental technology, science, engineering and mathematics education; space exploration; rotating machinery; test automation; robotics; space-based global change observation; remote sensing; space launch technologies; and the test and evaluation of systems incorporating these technologies.

ARTICLE III. RESPONSIBILITIES OF THE PARTIES

The Parties will actively seek areas for collaboration in research and development, test and evaluation to make best use of government scientific and engineering capabilities and facilities of the Parties in support of the missions of each Party. Each Party agrees to include the others in their planning activities for relevant test and evaluation infrastructure and technological investments, and to seek cooperative work.

The Parties will immediately initiate actions to assess the authorities for interagency work and establish streamlined interagency agreements and processes for doing work with each other.

The Parties will actively engage in exchange of business practices in technology transfer and reuse of government assets to promote best management practices in performance of each Agency's missions and to promote the regional and national economy.

ARTICLE IV. INTERAGENCY COMMUNICATIONS

To provide for consistent and effective communications, the Parties have designated points of contact listed in Appendix A to discuss and consider activities that may be pursued under this MOU. The points of contact shall coordinate all requests for assistance under this MOU and shall serve as the communication link between MSFC, AEDC and DOE ORO on matters relating to this MOU. Periodic reports will be provided to the signatories to this MOU on progress in effecting collaboration among the Parties.

ARTICLE V. FUNDING

This MOU will not be used to obligate or commit funds or as the basis for the transfer of funds between the Parties. Actual funding will be transferred only in accordance with and under specific interagency agreements that the Parties subsequently write pursuant to this MOU. All activities pursuant to this MOU are subject to the availability of appropriated funds.

ARTICLE VI. EFFECTIVE DATE, AMENDMENT AND TERMINATION

This MOU is effective upon the date of the last signature by the parties and shall remain in effect for a five-year period from the effective date unless terminated in accordance with the terms set forth herein. This MOU may be modified by mutual consent of the parties. MSFC, AEDC, or DOE ORO may terminate this MOU by providing 30 calendar days written notice. Upon request by a party, the parties shall review this MOU to assure that it continues to reflect the appropriate understandings and procedures to provide for current needs and capabilities.

ACCEPTANCE for the National Aeronautics and Space Administration George C. Marshall Space Flight Center:

By: (Original Signature on File) Date: _____

A.G. Stephenson
Director
NASA Marshall Space Flight Center
MSFC, Alabama 35812

ACCEPTANCE for the U.S. Air Force, Arnold Engineering Development Center:

By: (Original Signature on File) Date: _____

Col. Michael Heil
Commander
Arnold Engineering Development Center
Arnold AFB, TN 37389

ACCEPTANCE for the U.S. Department of Energy, Oak Ridge Operations:

By: (Original Signature on File) Date: _____

G. Leah Dever
Manager
Oak Ridge Operations
U.S. Department of Energy
Oak Ridge, Tennessee 37831

Appendix A

The following individuals are designated as Points of contact pursuant to this Memorandum of Understanding between the NASA Marshall Space Flight Center, the U.S. Air Force Arnold Engineering Development Center, and the U.S. Department of Energy Oak Ridge Operations Office.

National Aeronautics and Space Administration George C. Marshall Space Flight Center

Sally A. Little, Director
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Marshall Space Flight Center, Alabama 35812
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U.S. Air Force Arnold Engineering Development Center

DOE-ORO Technology Issues

John T. Best, Chief
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NASA-MSFC Space Systems Test and Evaluation Issues

Huland C. Smith, Lt Col, USAF
Chief, Space and Missile Systems Test Division
Arnold Engineering Development Center
676 Second Street
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Valley Corridor Development and Political Issues

Alexander F. Money
Chief, Business Development and Congressional Relations
Arnold Engineering Development Center
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U.S. Department of Energy
Oak Ridge Operations Office

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