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DAINGERFIELD DIVISION

ORDNANCE AEROPHYSICS LABORATORY

DAINGERFIELD, TEXAS

Operating Under Contract N0w 63-0405-c With the
Bureau of Naval Weapons, Department of the Navy

ABSTRACT

OAL Report 663-1

Tests of the HT/IT PIP Terrier
Rudones, in the Blowdown Facility,
for General Dynamics/Pomona. (U)

PREPARED BY: J. T. Jeter
J. T. Jeter

and

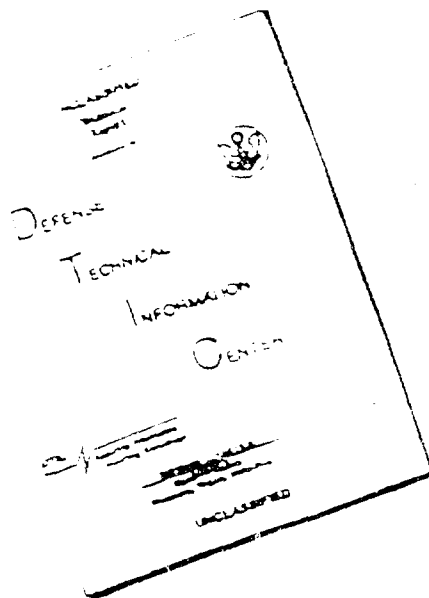
DATA REDUCED BY: J. T. Jeter F. T. Smith
J. T. Jeter F. T. Smith

DATA & RESULTS: J. L. Frier APPROVED BY: R. L. Turner
J. L. Frier R. L. Turner
for the Engineering Department

DATE 9 June 1964

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Tests of the HT/TF PIP Terrier
Missiles, in the Blowdown Facility,
for General Dynamics/Pomona. (U)

PREPARED BY:

J. T. Jeter

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DATA REDUCED BY:

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CHECKED BY:

J. L. Frier

APPROVED BY:

R. L. Turner
R. L. McMichael
Chief, Jet Engine Department

DATE: 9 June 1964

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ABSTRACT

Tests of the HT/IT PIP Terrier radomes for the Pomona Division of General Dynamics Corporation were conducted at the Ordnance Aerophysics Laboratory in the Blowdown Facility (Cell 6) during the period of 27 January through 14 February 1964. All radomes tested were the pointed nose radome assemblies. None of the 1.35 radius rounded nose radome assemblies were tested. A total pressure/temperature rake plus three steel calibration radomes were used to establish test conditions. Ten ceramic-type radome assemblies were tested at either 100, 110, or approximately 125 percent thermal stress. Some of the assemblies were yawed to either 12 or 14½ degrees angle of attack during the run. Each model was tested in a Mach 2.44, free-jet airstream, at approximately sea level pressure conditions. Inner surface temperatures and loads were measured, and time histories were recorded. One steel calibration radome, and two ceramic type radome assemblies failed during the tests. Movies of all models were made throughout the tests.



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