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MAR 31 2011

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1015	WHS	OSD Records Official	A Release Unlimited	S	N/A	N/A
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Robert Storer

- Enclosures:
1. DTIC request
 3. Six documents

Robert Storer
Chief, Records and Declassification Division

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HEADQUARTERS AIR MATERIEL COMMAND

WRIGHT FIELD, DAYTON, OHIO

11-M-1011-3-1
①

REEL - C

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A.T.I.

2419

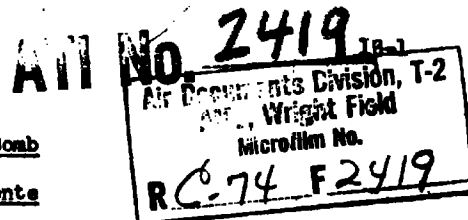
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1 October 1945

JB-3

Tiamat - Jet Bomb

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	Section Number	Date of Revision
Summary	13-1-1	1 Sept 45
Description	13-1-2	1 Aug 45
Characteristics	13-1-3	
Tests and Operational Use	13-1-4	1 Oct. 45
Training Program.	Not established	
Assembly, Maintenance and Test Equipment. . .	Not available	
Packaging and Shipping.	13-1-7	1 Aug. 45
Handling Equipment	Not available	
Availability.	None	1 Oct. 45
Cost	Unknown	
Comments	13-1-11	1 Sept 45
Bibliography.	Not available	

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X-135461-AA

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JB-3

(Tiemat)

TEST AND OPERATIONAL USE 13-1-4
1 Oct 1945

1. Developmental Tests - Wind tunnel tests have been run in the five-foot tunnel at Wright Field and in the Free Flight Tunnel at NACA, Langley Field. Free-flight rocket-propelled model tests are now in progress at NACA, Langley Field. Tests of the first group of four Hughes JB-3's have been tested at Wendover Field, Utah. The first JB-3 test failed because of premature operation of the camera rescue parachute. The second JB-3 flew approximately a straight line controlled flight into the ground. The third JB-3 tumbled before the motor fired. The fourth had one or two seconds of controlled flight after the accelerating rocket failed to operate. The fifth JB-3 oscillated violently on its mount before release, rolled immediately after release and the rocket motor exploded after 15 seconds of flight. The sixth JB-3 flew in a steady 12° dive for its entire flight exhibiting fairly good stability. The seventh JB-3 developed a pre-launching oscillation and tumbled upon release. Its rocket motor exploded after 4 seconds. Both the oscillation experienced before launching and the rocket motor failures are expected to be eliminated in the near future. Flight data indicates that control rates in roll and pitch should be decreased. Sufficient tests have not been made to obtain performance data.

2. AAF Board Tests - None.

3. Theatre Tests - None.

4. Theatre Operational Use - None.

5. Future Testing Program - Tests on the aerodynamic configuration and control characteristics and to continue at Langley and Wendover. Variations of three and four winged missiles and swept-back wing missiles will be made at Langley. Difficulties in development of the radar seeker are being experienced and at this time a date cannot be set for the test of the JB-3 under seeker control. Tests of ten JB-3's with Flight Test Assemblies which simulate seeker control will begin approximately 15 January 1946.

6. NACA TESTS - The dummy and No. 1 instrumented model have been launched. Trouble was experienced in the phase of flight where the launching booster leaves the model due to instability of the booster unit. A new booster unit incorporating a single boosting rocket is now being designed around the Monsanto ACL-1 rocket.

1 of 1

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JB-3

AVAILABILITY 13-1-9
1 Oct 1945

1. The first seven JB-3's have been tested at Wendover Field, Utah. Three JB-3's are scheduled for delivery on 8 October 1945. These missiles are auto-pilot controlled and are set to fly a straight line trajectory.

2. Of the thirty-five (35) full scaled models planned, the NACA has six (6) under construction.

1 of 1

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X-7 461-AA

REEL - C

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2419

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TITLE: Tiamat - Jet Bomb

ATI- 2419

REVISION
- (None)ORIG. AGENCY NO.
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ABSTRACT:

The developmental tests and their results on the JB-3 Tiamat-jet bomb are described. The future testing program is outlined and the availability of the JB-3's is covered.

DISTRIBUTION: Copies of this report obtainable from Air Documents Division; Attn: MCIDXD

DIVISION: Guided Missiles (1)

SECTION: Performance (11)

SUBJECT HEADINGS: Missiles, Guided - Performance (63150);
Missiles, Guided - Development (62920); JB-3 (62900)

ATI SHEET NO.: C-1-11-12

Air Documents Division, Intelligence Department
Air Materiel CommandAIR TECHNICAL INDEX
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Dayton, Ohio

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ATI- 2419

REVISION

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