Title: Altitude Performance Tests of the Westinghouse 19-A Jet-Propulsion Unit

By: Aircraft Engine Research Laboratory

Approved: 194

Issued: March 3, 1944

In accordance with authority of the Executive Committee, March 19, 1942

Purpose of investigation (Why)

To investigate the performance of the Westinghouse 19-A jet propulsion unit under various conditions of altitude

Brief description of method (How)

Complete performance tests of the Westinghouse 19-A jet propulsion unit to be made in the 20-foot high speed wind tunnel at various rpm's, tunnel speeds, and inlet air temperatures. Copies of all original data and calculations as well as reduced performance curves will be submitted to the Bureau of Aeronautics.

Remarks:

Requested by Bureau of Aeronautics Navy Department in letter of February 9, 1944. Aer-E-412-WB

Dates of reports

Publications

Completed: 194

Form No. 18

U. S. Government Printing Office 54-7678

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**PAPERS PREPARED UNDER RESEARCH AUTHORIZATION NO. E - 84**

### ENTITLED

**Altitude Performance Tests of the Westinghouse 19-A Jet-Propulsion Unit.**

<table>
<thead>
<tr>
<th>Title of Paper</th>
<th>Received</th>
<th>To Army</th>
<th>To Navy</th>
<th>Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Errata for Preliminary Data Part I of &quot;Altitude-Wind-Tunnel Tests of the Westinghouse 19-B Jet-Propulsion Engine&quot; dated 1-9-45</em></td>
<td>5-4-45</td>
<td>Liaison Officer at AERL</td>
<td>5-14-45 &amp; AAFR, Northrop 5-14-45</td>
<td><strong>To Westinghouse Elec. &amp; Manuf. Co., 5-14-45; to PR, Pratt &amp; Whitney, to BAR, McDonnell</strong></td>
</tr>
<tr>
<td>RM E7D08 &quot;Altitude-Wind-Tunnel Investigation of the 19B-2, 19B-8, and 19XE-1 Jet-Propulsion Engines, II - Analysis of Turbine Performance of the 19B-8 Engine&quot; by R.P. Krebs &amp; F.L. Suczzi. Converted to ESJ28a</td>
<td>1/24/47 10/14/48</td>
<td>1/31/47</td>
<td>1/31/47</td>
<td><strong>To Westinghouse Elec. Corp. 1/31/47</strong></td>
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**Final paper received by Committee (completion of authorization)**

Checked by AERL ___________________________  
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PAPERS PREPARED UNDER RESEARCH AUTHORIZATION NO. E-84

ENTITLED Altitude Performance Tests of the Westinghouse 19-A Jet-Propulsion Unit.

Title of Paper Received To Army To Navy Publication


Preliminary Data, "Altitude Wind-Tunnel Tests of the Westinghouse 19-B Jet-Propulsion Engine, "Parts I to X, inclusive"

Preliminary Data, "Altitude-Wind-Tunnel Tests of the Westinghouse 19-B Jet-Propulsion Engine, part XI" 1-15-45 4-23-45 Liaison Officer at AERL 5-12-45 5-12-45 to Westinghouse Elec. & Manuf. Co. 5-12-45

Preliminary Data, "Altitude-Wind-Tunnel Tests of the Westinghouse 19-B Jet-Propulsion Engine, Part XII," 1-25-45 4-23-45 Liaison Officer at AERL 5-12-45 5-12-45 to Westinghouse Elec. & Manuf. Co. 5-12-45 parts XI & XII to BAR, East Hartford, Conn. & BAR, Robertson, No. 5-12-45 AAF Inspector, Hawthorne, Calif. 5-12-45

Final paper received by Committee (completion of authorization)

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Memo: "Information regarding the windmill drag measured on the Westinghouse 19-B Engine during the altitude wind tunnel tests."

Prepared by A. Silverstein, dated 12-15-44)

Final paper received by Committee (completion of authorization)