

NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS

RESEARCH AUTHORIZATION

No. E-64

Title Investigation of Special General By Aircraft Engine Research
Electric Supercharger (Type I-16 Laboratory
Unit in Bell P-59)

Approved _____, 194_____

Chairman, Subcommittee on _____

Issued ~~Approved~~ January 27, 1944

H. W. L.

~~XXXXXXXXXXXXXXXXXXXX~~
~~Blackman, Local 100 Committee~~

Director of Aeronautical Research

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

Purpose of investigation (Why?)

To determine the performance characteristics of a special type of jet-propulsion unit constructed for the Army Air Forces by the General Electric Company.

Brief description of method (How?)

Tests will be made of the unit installed in a Bell
pursuit in the altitude wind tunnel and its characteristics
determined.

Remarks:

Requested by Materiel Command, Army Air Forces, in letter dated October 22, 1943 (PFN:HHD:57)

Dates of reports _____ Publications _____

Completed _____, 194____

Copy to LWU

Conv to AAI

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PAPERS PREPARED UNDER RESEARCH AUTHORIZATION NO. E - 64

Entitled Investigation of Special General Electric Supercharger.

Title of Paper	Received	To Army	To Navy	Publication
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Preliminary Analysis, "Calculation of Thrust of a Compressor-Combustion-Turbine Jet Propulsion Engine" dated 7-11-44 8-24-44

to AAL

Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YF-59A Power-Plant Installation Part IX," dated 8-30-44 9-4-44

Liaison Officer
at AERL 9-7-44

Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YF-59A Power-Plant Installation, Part X," dated 9-21-44 9-28-44

Liaison Officer
at AERL 9-29-44

Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YF-59A Power-Plant Installation, Part XI," dated 10-23-44 10-28-44

Liaison Officer
at AERL 10-30-44

to LIAL

Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YF-59A Power-Plant Installation, Part XII" dated 11-22-44 11-30-44

Liaison Officer
at AERL 12-1-44

RMR # E5117: "Altitude-Wind-Tunnel Tests of the Bell YF-59A Power-Plant Installation" by G. Merritt Preston, Fred O. Black, Jr., and James M. Jagger. dated 2-4-46 1-28-46

Liaison Officer
at AERL 2-4-46

Paper: "Experimental Investigation of the Jet-Boundary Constriction Correction for a Model

* Spanning a Closed Circular Tunnel" by Maurice Tucker & Morris D. Rousso 12-19-45

AMC
W. Field
9-13-46 9-13-46

R.M.

* Corrections to Paper

Conversion of above report EOK26a 6-1-46 4/15/48 (completion of authorization)

Checked by AERL

Form No. 45C

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PAPERS PREPARED UNDER RESEARCH AUTHORIZATION NO. E- 64

Entitled Investigation of Special General Electric Supercharger.

Title of Paper	Received	To Army	To Navy	Publication
Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YP-59A Power-Plant Installation, Part I," dated 5-10-44	5-15-44	Liaison Officer at AERL	4-24-44	
Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YP-59A Power-Plant Installation, Part II," dated 5-10-44	5-15-44	Liaison Officer at AERL	5-18-44	
Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YP-59A Power-Plant Installation, Part III," dated 6-13-44	6-16-44	Liaison Officer at AERL	6-16-44	to AAL 8-10-44
Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YP-59A Power-Plant Installation - Part IV," dated 7-8-44	7-13-44	Liaison Officer at AERL	7-14-44	
Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YP-59A Power-Plant Installation, Part V," dated 7-11-44	7-17-44	Liaison Officer at AERL	7-24-44	
Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YP-59A Power-Plant Installation, Part VII," dated 7-21-44	7-27-44	Liaison Officer at AERL	7-29-44	
Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YP-59A Power-Plant Installation, Part VIII," dated 8-5-44	8-11-44	Liaison Officer at AERL	8-12-44	
Preliminary Data, "Altitude-Wind-Tunnel Tests of the Bell YP-59A Power-Plant Installation, Part VI," dated 7-17-44	7-24-44	Liaison Officer at AERL	7-27-44	
Final paper received by Committee (completion of authorization) _____				

Checked by AERL _____

Form No. 450