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PRATT & WHITNEY AIRCRAFT

FOX PROJECT

TECHNICAL INFORMATION MEMORANDUM

SUBJECT: Subcontract Work by Thompson Products, Inc.

TIM NO. 126

DATE OF REPORT: April 20, 1955

COPIES TO: WADC-WCLPU, USAEC-EHAO, R.I. Strough,
C.H. Harvey
Circ: B.A. Schmickrath, G.E. Beardsley, C.E.
Holtzinger, R.N. Wallace, R.M. Meyer, A.I.
Chalfant

WRITTEN BY: R.H. Shaw *R.H.S.*

APPROVED BY: K.K. Klingensmith *K.K.*

In April, 1954, Thompson Products Inc. formally began work on a program leading to the fabrication of two test radiators. The work done to date is summarized in report number PWAC-127, First Technical Report by Thompson Products Inc. on Liquid-Metal-to-Air Radiators and in PWAC-128, Second Technical Report by Thompson Products Inc. on Liquid-Metal-to-Air Radiators.

The first report describes possible radiator design concepts meeting the required specifications and presents an analytical method which was derived to optimize the designs. Thompson Products has decided that a core with cast NaK passages in combination with the sheet-metal, ribbon fins on the airside offers maximum reliability. The second report formulates the analysis of the final radiator design and presents the fabrication and evaluation studies used to select the design.

To evaluate the permeability of cast NaK passages, Thompson Products is planning to build a hot NaK flow rig. A parallel investigation on wrought materials will be carried out as an alternate NaK passage type.

The next phase of the program, the final design of the test radiator, has started.

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