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P-101C

13 April 1956

MEMORANDUM FOR: THE RECORD

SUBJECT : Meeting [redacted]

1. Time and Place of Meeting: The meeting was held 9 April 1956 at [redacted]

2. Attendances: [redacted]

3. Discussion:

a. After introductions were performed [redacted] signed the required secrecy agreement. Our particular security requirements were explained as to non-association and personnel clearance. [redacted] stated that a complete tour of the plant would be impossible as he had no record of our clearances and part of his plant was currently engaged in a classified government contract.

b. Before touring the unclassified portion of his plant, [redacted] explained some of their past efforts. He demonstrated their "Screaming Meemie" which is a heat detector using a PbS (Ektron) detector. The signal from the Ektron detector feeds through a voltage sensitive amplifier into heat oscillator. The final output drives a speaker. The aural signal is that of an oscillator which changes frequency when radiation falls upon the Ektron detector. The present, no signal, frequency of the oscillator appears to be approximately 15-16,000 cps. Signal causes a lowering of frequency at present although it is believed that this could be reversed if desirable.

c. [redacted] mentioned that his plant manufactured thermistors with time constants in the order of 200 micro secs. which is somewhat faster than Bell Labs have done.

d. They also manufacture Black Bodies with ranges to 230° C or 650° C. Radiometers in 4" and 8" sizes were a natural outgrowth of the Black Bodies. The Bureau of Standards was favorably impressed with the accuracy of same.

e. The [redacted]

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e. [redacted] is engaged in automation. They have manufactured devices to operate turret lathes. They are currently making for Mallory machines to assemble their mercury batteries at a rate of 50/minutes per machine. An effort (for the petroleum industry) is being made to develop automatic refractometers.

25X1

f. A device was mentioned that takes heat pictures. Details were not disclosed as to the method but the claims were as follows:

- (1) quantitative picture obviously produced by scan lines taken on a Polaroid Land Camera
- (2) Sensitive to at least 3° C differentials in temperature. Exposure time 15 minutes. A classified effort is being made to reduce the exposure time with the comment from [redacted] that the time has been reduced to less than one minute.

25X1

g. The plant consists of some 22,000 sq. ft. and employs approximately 110 persons. Their Chief IR man is [redacted] [redacted] stated that 65% of their efforts were in Infrared.

25X1  
25X1

h. A 9 man machine shop appears to be efficiently run and well equipped. Production facilities for limited quantities appear to be adequate for electronic and mechanical parts. Optical components are purchased outside.

i. [redacted] was given our sterile address and some PSQ's and was requested to send the PSQ's on people who would need to be witting.

25X1

4. Recommendations:

It is recommended that APD consider this company as a possible source of a passive IR device and contingent upon the results, to consider further developmental and production contracts.

[redacted]  
TSS/APD

25X1

**Distribution:**

- 1 - P-1011
- 1 - P-101B
- 1 - P-101C
- 1 - P-101D
- 1 - Panel
- 1 - HW
- 1 - RTW

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RTW/lm