

CONSULTATIVE SERVICES RECORD
PRNC-NRL-10-631 (Rev. 2-55)

SECRET

DATE <i>24 May 1955</i>	SERIAL NUMBER	FILE NUMBER
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1. INSTRUCTIONS - This form is to be prepared in duplicate and signed by the conferee after each conference between Laboratory personnel and outside persons. Route both copies to Division Head, to Codes 4010, 1020, 1530, 1505 (retains one copy), and to 1523 for file.

2. CONFERENCE DATA

(a) DATE OF CONFERENCE <i>19 May 55</i>	(b) PLACE <i>Sylvania Electronic Division, Woburn, Mass.</i>
(c) NAME(S) OF LABORATORY PERSONNEL <i>Reid D. Mayo</i>	(d) DIVISION AND CODE NUMBER <i>5435 A Radio Division</i>

(e) NAME(S) OF OUTSIDE PERSONS <i>E. J. Feldman</i>	(f) ACTIVITY REPRESENTED <i>Sylvania Engineering Development</i> " " <i>Sylvania, Gov't Sales MANAGER</i> " " <i>MAN.</i>
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(g) PURPOSE OF CONFERENCE
To EXAMINE the production and testing techniques in the manufacture of Microwave crystal detectors at The Sylvania Factory.

(h) TIME CONSUMED IN CONFERENCE
6 hours

(i) HIGHEST CLASSIFICATION OF MATERIAL DISCUSSED OR SHOWN <i>Confidential</i>	(j) NRL PROBLEM NUMBER <i>54206-17</i>
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BRIEF OF RESULTS

*The work being done for ^{Butler} NRZ Problem 54206-17 is the development of two horn antennas and crystal mounts. One of these antennas + crystal mounts, ^{the AT-630(B-1) ALR,} covers the band of frequencies from 20 ^{KMC} Kmc to 40 Kmc and uses a crystal of the 1N53 type. This trip to the Sylvania factory was made primarily to observe how these and other similar detector crystals are manufactured and tested. In addition to this, problems of crystal-burnout, ^{burnout} including the testing procedures and results were discussed. Contract N1735-27139 was placed with Sylvania to supply (60) 1N53 type crystal diodes but, "without matching transformers." This diode is going to be given the nomenclature designation *D-799**

SECRET

HANDLE VIA BYEMAN
CONTROL SYSTEM ONLY

SIGNATURE *Reid D Mayo*

CONTROL SYSTEMS JOINTLY
 BYEMAN T-1
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