

Colonel O. G. Haywood, Jr., Washington, D. C.

April 1, 1947

H. M. Koth, Assistant to the Chief  
Research Division, Field Operations  
LIST OF CLASSIFIED DOCUMENTS ON RADIATION INSTRUMENTATION

135553

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1. Lt. Morris F. Murphy, Naval liaison officer, Instrument Production Section of this office, has requested authority to transmit the inclosed list of documents on Radiation Instrumentation to Chief of the Bureau of Ships, Navy Department, Washington, D. C., Attention: Commander Gould Hunter, Code 945 (Special Applications Branch).

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2. Reports appearing on the inclosed list have been selected from approximately 150 index cards on the subject available in this office as pertinent to radiation instrumentation research and development work. Commander Hunter, by referring to this list, will be able to request by specific number and title only those reports of interest to the Navy.

3. This list has been reviewed by this office and it is recommended that authority be granted to transmit the list to Commander Hunter as requested by Lt. Murphy.

1 Incl.:  
List of Documents

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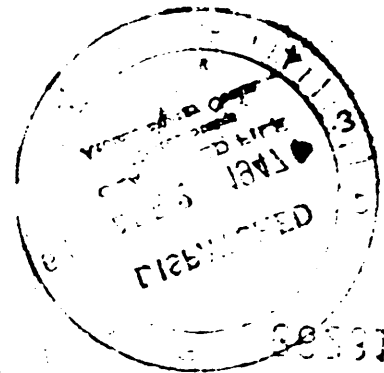
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NAVAL Dept.

- GP-225 On slow neutron ionization chamber; sensitive circuits; alpha counting; FP-34 electrometer . . . . . **SECRET**  
V. G. Wilson & Assoc
- GP-304 Charge measuring instrument; alpha counters; scalars, etc. . . . . **SECRET**  
V. G. Wilson
- GP-1454 Waterproofing and shock mounting of radiological instruments . . . . . **CONF.**  
E. W. Malley
- GP-1728 Counter filling; vibrating reed; condenser counters; scalars . . . etc. . . . . **SECRET**  
W. V. Watson BEST COPY AVAILABLE
- GP-1905 Monostat based on principle of inductance barometer. **SECRET**  
E. E. Stanton & Assoc.
- GP-G-2160 Instrument construction; vibrating reed; ionization chambers . . . etc. . . . . **SECRET**
- GP-I-2572 Tungsten wire straightener . . . . . **RESTR.**  
A. A. Jarrett (Clinton Lab)
- GP-G-2431 Equivalent circuits for quartz crystal circuits **SECRET**  
G. Williamson (Carnegie)
- GP-I-2467 Quartz fiber technique in Nyverson instrument shop. **RESTR.**  
S. Anderson
- Head-150 Development of geiger tube alpha counter equipment and electronic equipment . . . . . **SECRET**  
J. R. Gee
- Head-160 Development of instruments . . . . . **SECRET**  
Nordheim
- MPec-1 Report on counters . . . . . **SECRET**  
G. G. Lawrence (Montreal Lab)
- MPec-2 Instrument production; ionization chambers. **SECRET**  
G. G. Lawrence (Montreal Lab)
- MPec-4 Instrument requirements and development . . . . . **SECRET**  
G. G. Lawrence (Montreal Lab)
- MPec-66 Physical instruments to be developed, etc. **SECRET**  
D. G. Hurst

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*Incl \*w/o page 6*  
*J. Diaz 5/3/89*

- NFec-146      Design and construction of high frequency high  
tension supplies. . . . . **SECRET**  
                  H. F. Freundlich & G. A. Barnes
  
- N-111A        Process Manual - Instrumentation; Sec. (9A) Introductory  
remarks on the interaction of radiation with matter and measure-  
ment of radiation vacuum tubes; primary instruments; foil  
and chemical counting statistics; Lauriston electroscopes;  
pocket chambers; film meters; ionization chambers; counters  
for alpha; GM counters, etc. . . . . **SECRET**  
                  Clinton Laboratories
  
- N-111B        Process Manual - Instrumentation; Sec. (9B) Instrument  
circuits; vibration amplifier and wobble meter; Victoreen  
intergen and survey meter; amplifiers for proportional  
counters; counting rate meter; scalars; portable GM survey  
meter . . . . . **SECRET**  
                  Clinton Laboratories      BEST COPY AVAILABLE
  
- N-111C        Process Manual - Instrumentation; Sec. (9C) Additional  
on all types of radiation meters and circuits. . . . **SECRET**  
                  Clinton Laboratories
  
- N-691         High speed impulse generator . . . . . **REST.**  
                  W. H. Bradley
  
- N-1290        Surface ionization detector-Flute-Portable GM survey  
meters, etc. . . . . **REST.**  
                  Deeting with Hallcrafters Co.
  
- N-1490        Statistical studies of counting. . . . . **SECRET**  
                  B. F. Butler
  
- N-1491        Standard of terminology and usage in instrumentation. **REST.**  
                  T. P. Kohman
  
- N-1497        Equations for resolving times and coincidence corrections. **REST.**  
                  T. P. Kohman
  
- N-1603        Plastics for high-pressure chambers . . . . . **REST**  
                  S. H. Cooper
  
- GL-1868       Product and fission product training progress Sec. 2-  
Instruments - Beta-alpha measurements; gamma measure-  
ments; the properties of alpha counters. . . etc. . . **SECRET**  
                  J. H. Wilson (Clinton Lab)
  
- GP-I-1817     Manual for the proportional counter . . . . . **REST.**  
                  J. A. Simpson

- N-GP-1699 Design and use of alpha particle detector-Flute. . . . . SECRET  
E. W. Malley
- GP-1645 Development and construction of alpha counting equip- . . . . . SECRET  
ment . . . . .  
P. H. Firminhas et al (Clinton Laboratories)
- N-OC-1613 Analytical Div. Semi-monthly Report: Testing of . . . . . SECRET  
Simpson alpha counter; comparison of three types of  
alpha counters . . . etc. . . .  
D. H. Smith & Assoc.
- N-OC-1602 A manual on the measurement of radioactivity . . . . . RESTR.  
A. H. Jaffey et al
- GE-1560 Health Div. Monthly Report: Pocket chambers and film . . . . . SECRET  
meters; hand and product monitoring & measurement by  
alpha emission and cyclotron induced fission; decontami-  
nation of clothes. . . . .  
R. S. Stone et al
- GE-1511 General Physics . . . water monitoring and Al<sup>28</sup> activity; . . . . . SECRET  
measurement of alpha in presence of beta with proportional  
counter; boron coating for ionization chambers . . .  
Project Council
- GE-1511 Chemical Research Monthly Report: Effect of thickness . . . . . SECRET  
(sample) on counting rate in 90° geometry counters, etc  
G. T. Seaberg et al
- GE-I-2531 The determination of alpha emitters in air; comparison . . . . . SECRET  
of electrostatic precipitator and filter paper for collec-  
tion of dust from air; methods of alpha counting, etc.  
R. H. Firminhas (Clinton Labs)
- GP-g-2426 Phy. Research Monthly Report - Amplifiers boron coats . . . . . SECRET  
and cylinders; alpha chamber; monitoring of pile water  
etc. . . . .  
A. J. Dempster & Assoc.
- GP-I-2206 Low Pressure alpha counter . . . . . RESTR.  
W. B. Bennett (Clinton)
- GP-I-2115 Instrument specification report-manufacturing specifi- . . . . . SECRET  
cations for the surface ionization detector "Flute"..  
J. Dorsey

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N-2001	Characteristics of a cylindrical alpha counter . . . A. Pfansteihl	SECRET
N-1977	Instructions and precautions in the use of the filter queen air tester and associated equipment . . . . A. Pfansteihl	SECRET
N-1920	Table of coincidence corrections for alpha and beta counters. . . . . H. H. Hyman	RESTR.
N-1915	Tolerance dosages and biological effects of radiation; chamber and circuit for a measurement; industrial hazards and surveys, etc. . . . . A. H. Dowdy & Assoc. (U. of Rochester)	SECRET
N-1949	Biological effects of radiation; tests for heterogeneity in a radiation field; hand counters, meters, etc. . . R. Bochs & W. Bale (U. of Rochester)	SECRET
N-1710	Tests on standard alpha counters. . . . . O. C. Simpson	SECRET
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N-1677	The theory of "Sneezy"; design and operation of; an instrument for determining alpha activity in the air . . . . . E. Molloy	SECRET
N-1536	Draft of Ch. II of Vol. 9A of NRP: Alpha radiation measurements. . . . . W. Rubinson & J. A. Crawford	SECRET
N-687	Chambers for counting alpha particles; nitrogen filled chambers. . . . . L. F. Curtiss (Clinton Labs.)	RESTR.
(A)N-1796	Foil alpha counter . . . . . F. Esler & J. Brown	SECRET
A-1722	Differential range selector for alpha particles . . F. J. Davis & L. F. Curtiss	SECRET

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NATIONAL ARCHIVES





- A-3239 Battery operated inverse feedback electrometer circuits and gamma radiation meter . . . . . SECRET  
G. S. Wa & L. J. Rainwater
- (Chem) RL The techniques of 27 measurements. . . . . SECRET  
(4.60271) M. B. Allen (Rad. Lab.)
- CH-3631 The quantitative estimation of the activity of beta particle emitters. Methods of preparing absolute standards of  $Ux_2$  and  $RaE$ , and reference standards of  $U_2O_3$ ; Calibration of GM counters; standardization of Lauritzen electroscopes . . . . . RESTR.  
R. W. Cole (Argonne Lab.)
- CP-3612 Changes in the threshold of gas flow beta counters. Investigation of causes of threshold value changes in gas flow beta counters. . . . . RESTR.  
R. W. Cole (Argonne Lab)
- H-6169 Possible methods of detecting radiation from ~~oil~~ . . . . . SECRET  
W. P. Jesse BEST COPY AVAILABLE
- H-606 Calibration of quartz fiber electroscopes for beta rays . . . . . SECRET  
W. H. Ray (Clinton)
- H-676 Measurement of beta radiation with in a cubical enclosure of activated phosphorus. . . . . SECRET  
W. H. Ray (Clinton Lab.)
- H-1023 Ionization chambers for measurement of beta activity in water tube experiment . . . . . SECRET  
R. W. Hunt (Clinton Lab.)
- H-1254 Modification and standardization of beta and gamma ray counting techniques . . . . . SECRET  
W. H. Sullivan (Clinton Lab.)
- H-1532 Techniques used by the FP analytical group for mounting samples for beta and gamma counting . . . . . SECRET  
R. I. Martins (Clinton Lab.)
- H-1919 Graphs giving backscattering of betas for various energies . . . . . SECRET  
D. W. Engelkeair
- H-1994 Preparation of absolute beta standards and application to the determination of neutron flux . . . . . SECRET  
T. B. Hovay & P. W. Low (Clinton Lab.)



~~SECRET~~

TRE-1	TRE Nuclear Phy. News Letter- Summary of progress on equipment development by the AE SEC. of TRE; scaling units; high voltage power units; linear amplifier; GM counter circuits, etc. (BRITISH)	NONE
LA-261	Recording dosimeter for 1 micro-second X-Ray pulses; description of two types of ionisation chambers whose voltage outputs are proportional to the integrated intensity of a single X-Ray pulse, provided the spectra distribution of the X-Ray remains reasonable constant; discussion of electronic circuit required to operate a recording meter. J. S. Allen & D. E. Hudson	SECRET BEST COPY AVAILABLE
CRP-288	An inverse feedback D.C. amplifier; Description of a DC amplifier with gain of 4000 and input grid leakage current of $10^{-12}$ ampere having short term variation reflected to the input of 0.5 MV and long term variation or drift of 5 MV per hour referenced to input, with low impedance operation that can be adjusted to ground potential when the input is grounded; capable of feeding a recording milliammeter; circuit diagram. F. J. M. Farley & H. E. Grove (Chalk River Lab)	SECRET
CRFec-267	A kicksorter for nuclear research- Description of a pulse analyzer which separates the pulses from an ionisation chamber into classes according to their amplitude and hence provides an energy spectrum of the particle; problem of design and how they are treated in five different kicksorters; performance and typical results. H. F. Freundlich	NONE
CRP-291	The 1945 Kicksorter-General design Features of kicksorter (multiple discrimination); description of performance and pre-treatment; channel and monitor units; power supply system; lining-up attachment and drift measurement apparatus; operating current and voltage; calibration. G. C. Hanna & C. H. Wescott (Chalk River Lab)	NONE

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A-1121

**SUMMARY REPORT ON NEUTRON COUNTER-**  
Plateau characteristics of self-quenching counters effect of use of counter on plateau; counting neutrons; theory and experiments on quenching in vapor filled counters; resolving time; charge collected on wire; design of reversing circuit.

**SECRET**

S. A. Korff & W. B. Spats

A-1275

Columbia Sealing circuits.

**SECRET**

H. A. Glassford & J. R. Dunning

M-1880

U. Of Rochester Monthly Report on Projects I and V Progress-construction of small battery operated GM counter for search purposes.

**SECRET**

W. F. Bale & J. F. Bonner

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A-2105

Tetramethyl lead filled GM counters- Several types of counters; a suitable counter amplifier circuit; filling technique.

**SECRET**

H.A. Glassford & R. L. Macklin (Columbia U)

A-2151

Portable battery operated two-stage RADIATION METER.

**SECRET**

C. S. Wu & J. Rainwater

A-2170

An investigation of the input grid current of the type 959 acorn tube as an electrometer tube.

**SECRET**

C. S. Wu & J. Rainwater

A-3625

A batteryless electronic regulated power supply.

**CONFIDENTIAL**

J. Aristei (Garbido)

GT-663

Report on some experiments on GM counters and proportional counters.

**SECRET**

S. A. Korff, et al

GT-693

Tech. Research Monthly Report- G. E. ionization chambers; portable meters; high value resistances; Beckman and other circuits; separation control circuits; effect of radiation on vacuum tubes; Harvey amplifier, etc..

**SECRET**

V. G. Wilson & Associates

GT-757

Tech. Research Monthly Report- Neutron, gamma, beta ionization chambers; high value resistances; circuits for X and W monitoring; stack gas monitoring.

**SECRET**

V. G. Wilson & Associates

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- CT-959 report on the Columbia scaling circuit.  
B. Schloss & S. Robinson SECRET
- CP-997 A laboratory vacuum tube electrometer.  
B. L. Weller CONFIDENTIAL
- CP-1002 A report on DC amplifiers for use with  
ionisation chambers.  
W. H. Hinch CONFIDENTIAL
- CP-1087 Gen. Phy. Research Monthly Report  
Water monitoring; instruments; boron  
coatings, etc...  
W. W. Watson SECRET  
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- CP-1289 Ionisation chamber amplifiers.  
W. T. Eilmendorf, et al SECRET
- CP-1313 Alpha amplifier for use with Offner Type  
961A Scaler.  
W. P. Overbeck (Clinton) SECRET
- CP-1396 Electronics Group of Chem. Sec. C-III  
Poor plateaus with thin window GM tubes;  
positive suppressor grid voltage in a scal-  
ing circuit; effect of tube mismatch in  
a scaling circuit; a rapid method for  
checking the accuracy of a scaling circuit;  
adaptation of Chicago scaler for fission  
counting and for Mehr-Harper quenching  
circuit.  
B. Schloss CONFIDENTIAL
- CP-1482 Low drain electronic radiation detector using  
a glow tube indicator.  
E. W. Molley & W. H. Hinch CONFIDENTIAL
- CP-1811 Gen. Phy. Research Monthly Report-  
Dust monitoring; survey instruments; counters;  
miscellaneous instruments; high impedance  
chopper amplifier; delayed neutrons, etc...  
W. W. Watson & Associates SECRET
- CP-1976 Wiring diagram of a scaling circuit using  
relays.  
A. H. Snell & H. Jones SECRET
- M-CP-I-2141 A vibrating reed electrometer-  
Description; principles of operation, tec.  
R. Swank RESTRICTED

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- CP-S-2161 Argonne Lab. Monthly Report-  
Energy of photo neutrons; fast amplifiers;  
standardization of Mn foils; differential  
length of slow neutrons in water, etc.  
E. Fermi & W. H. Kinn SECRET
- CP-I-2188 Four-fold hand counter.  
D. R. Luster & G. S. Pawlicki SECRET
- CP-I-2452 "Zeus" a portable Chicago ionization  
chamber for measuring of alpha, beta and  
gamma rays.  
F. R. Shonka, et al RESTRICTED
- CP-I-2592 Count rate meter based on design by MIT SECRET
- CH-2597 Health Div. & Bio. Sec. Report-  
Clinical medicine; special hazards;  
water proof film packs; consistency of  
hand counters; circuit for hydrogen  
chamber, etc...  
J. E. Wirth, et al SECRET BEST COPY AVAILABLE
- CP-I-2806 Construction features of a circuit for  
coincidence measurement and application  
of circuit to nuclear problems.  
G. D. Meak (Clinton Lab) SECRET
- CP-I-2947 CHART Recording Scaler plateau plotter.  
D. R. Luster (ClintonLab) SECRET
- CP-I-2854 Use of hearing aid tubes in portable  
counting rate meters and amplifiers.  
L. Bierman CONFIDENTIAL
- CP-I-3104 The Monistren-An area instrument.  
G. O. Ballou SECRET
- CP-I-3155 Circuits for measuring ionization  
F. R. Shonka RESTRICTED
- CP-I-3169 Circuit for reducing time constant in  
D.C. Amplifier used with ionization chamber.  
F. R. Shonka & R. S. Stephenson SECRET
- M-3290 Experimental Physics-Linear amplifier;  
regulated characteristics and design of  
a linear amplifier.  
W. H. Jordan (Clinton) NONE
- LA-99 Oscillator sweep circuit and delay line  
for the study of transients.  
W. A. Eiginbotham RESTRICTED

- LA-107      Experiments on the use of a delay line in counter pulse amplifier.  
O. R. Frisch      SECRET
  
- LA-115      Time collection of electrons in ionization chambers.  
J. Allen & B. Rossi      SECRET
  
- LAMS-161      Safety circuit with DC amplifier; circuit to monitor beta, gamma or neutron radiation and counting of radiation at any predicted level.  
R. J. Watts      SECRET
  
- MX-141      D. C. Amplifiers-Linear feedback amplifier for measurement of mass spectrometer ionization current down to  $10^{-14}$  ampere.  
P. L. Graham      BEST COPY AVAILABLE      SECRET
  
- (A)M-1603      Rochester Ionization Meter-Construction and operating details; instrument with interchangeable ionization chamber for measurement of various radiations.  
W. F. Bale (U. of Rochester)      SECRET
  
- (A)M-1610      Portable GM Counter Design-construction and details.  
J. F. Bonner & F. Estes      SECRET
  
- (A)M-1771      The use of Potter type scaling circuit for radiation counters.  
J. F. Bonner & F. Estes      SECRET
  
- N-222      Modified scaler circuits and circuit for gamma counters.  
B. Schloss      SECRET
  
- N-1726      High-frequency amplifier circuit  
G. T. Seaborg      SECRET
  
- N-1752      Design of a new vacuum tube suitable for use in Higinbetham scaler.  
F. Safford      CONFIDENTIAL
  
- N-1763      Testing of counter and scaler units for statistics  
K. R. Coveyou      SECRET
  
- N-1785      Apparatus for measuring the energy distribution of neutrons in the region  $10^5$  to  $10^5$  C.M.  
T. M. Snyder      SECRET
  
- N-1925      Design of a high-gain video amplifier for pulse reception.  
M. P. Grouch (MIT Rad. Lab.)      CONFIDENTIAL

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N-2068	Interval between pulses of counter or scaler. R. R. Coveyou	SECRET
N-2077	A transportable counting rate meter for measuring gamma. R. J. Smith	CONFIDENTIAL
(C)D-4.480.6	R. G. Ohmster-Description of an instrument for measuring resistance in the range $10^0$ - $10^2$ G. H. Neil	RESTRICTED
M-PZ-71	A portable GM counter. W. J. Hushley	CONFIDENTIAL
(Chem)D-30	An AC operated beta ray meter of improved design. E. J. Groth	SECRET
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(Chem)D-36	An ionization current amplifier using cathode follower tubes throughout. E. J. Groth	CONFIDENTIAL
(Chem)RL(7.6)17	High speed GM counter and integrator S. G. Curran	CONFIDENTIAL
(GD)TE-B-1	A new type regulator for high voltage supplies E. J. Groth	RESTRICTED
CP-3440	Design of dynamic condenser electrometers analysis of operation of dynamic condenser electrometer and sensitivity; design of dynamic condenser for electrometer use design of tube circuits; vibrating reed and vibrating diaphragm electrometers. H. Palevsky & R. J. Swank	NONE
CP-3595	Construction data for M2 vibrating reed electrometer. Specific circuit and mechanical design of reed electrometers. R. Swank & H. Forstat	SECRET
CP-I-2971	A study of variations accompanying low current ionisation chamber measurements. R. K. Swank & H. Palevsky	SECRET
CP-1166	Preparation of primary beta ray standards J. H. Robert	SECRET

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- CH-2157**

Health Div. & Bio. Sec. Monthly Report-  
 .RADIATION HAZARDS; pocket and badge  
 meter readings; neutron film; laundry;  
 air monitoring for Pu; gas masks to  
 protect from product..  
 J. E. Wirth & H. J. Curtis

**SECRET**
- BR-517**

The measurement of a neutron flux in the  
 presence of X-rays.

**SECRET**
- BR-519**

On a possible method of investigating  
 the backscattering of alpha particles  
 under conditions of 50% geometry.  
 N. Feather

**SECRET**
- LA-557**

La-140 Gamma Ray Sources-Equipment for  
 measurement of intense gamma ray sources;  
 de-contamination equipment, etc.  
 G. Friedlander & R. J. Steinhardt, Jr.

**SECRET**
- CP-1576**

Gen. Phy. Research Monthly Report-Pt. I-  
 Measurement of Pu dust; neutron thermopiles;  
 ionization chambers; scalars; amplifiers;  
 gamma spectrum.  
 W. W. Watson & Associates

**SECRET**
- CP-I-3362**

New Models of integrating gamma ray and  
 slow neutron pocket meters (dosimeter) and  
 pocket chambers.  
 O. G. Landsverk

**DECLASSIFIED**
- CP-I-3400**

Gamma monitoring system.  
 H. Holtzman

**RESTRICTED**
- CC-1638**

Chem. Research Monthly Report- Characteristics  
 of known fission products; fission recoil  
 measurement GM counters; new gamma counter.s  
 H. Sugarman & A. Turkavich

**SECRET**
- CH-AH-2200**

The measurement of gamma activity by  
 measurement of the Metallurgical Lab.  
 high-pressure ionization chamber.  
 H. Feder (Clinton Lab)

**SECRET**
- CP-I-3085**

Quantum Counters  
 H. Deutsch

**SECRET**
- CP-I-3134**

Description and instruction for operation  
 and maintenance of a new model gamma ray  
 pocket meter.  
 O. G. Landsverk

**RESTRICTED**
- CP-I-3109**

A beta chamber for compensating for cosmic  
 rays in a high pressure ionization chamber.  
 F. R. Shonka & R. J. Stephenson

**SECRET**

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- (A)M-1525B A portable micro radiation meter-  
Instrument to measure neutron and gamma  
ray intensities of the order of the tol-  
erance level in a few seconds.  
G. Dessauer (U. Of Rochester) **SECRET**
- H-246 Note on a determination of gamma ray energies  
by coincidence counting of Compton recoil.  
A. C. G. Mitchell **CONFIDENTIAL**
- H-686 Behavior and calibration of the Lauritsen  
electroscope in the presence of various  
intensities of gamma radiation.  
K. Z Morgan (Clinton Lab) **BEST COPY AVAILABLE**
- H-1171 Proportional counters and new problems  
on a recent visit to I; low intensity  
gamma counters. **SECRET**  
J. A. Simpson
- H-1386 Factors effecting counting gamma rays... **SECRET**  
R. P. Metolaf
- H-2078 Statistical variation on ionisation  
chamber currents. **RESTRICTED**  
E. Wakefield.