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SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
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CLASSIFICATION CHANGED TO U AUTHORITY W. C. Layne
Emeleth Selah 1/30/97 RECORD ID 97SN1242
DATED 12-19-96
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APR 1 1958

Ref. Sym: 5126 (6)

INVENTORIED DATE JUL 1 1964

MR. S. C. HIGHT - 5100

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Re: Division 5126 Progress Report - First Quarter - January 1 - March 31, 1958

INVENTORIED JUL 1 0 1
INVENTORIED DATE JUN 1 6

Members of Division 5126 have been working on projects during the first quarter of 1958 as follows:

BRAINERD, E. E.

1. Continued programming and checking out program for Air Defense problem on the 1103A for S. Bell.

KUHN, G. D.

1. Concluded operating of Upper Wind Statistics for Drs. Abraham and Bradford's balloon trajectory problem.
2. Programmed and run Dr. Calvert's problem concerning defense saving when carrier only and warhead kills are allowed as opposed to warhead only kills.
3. Began programming for R. W. Charles' seasonal lag correlation coefficient program.
4. Began work on R. W. Charles and W. Roberty's seasonal effect scaling wind program.
5. Attended long tech orientation.

INVENTORIED JUL 1 2 1961

COLVIN, H. A.

1. Maintenance of 102A computing system.
2. Maintenance and modification of digital plotter. 3427-1
3. Installation of IBM 126 keypunch to plotter system.

INVENTORIED DATE JUL 7 1960
INVENTORIED DATE APR 1 5 1961

HILLENBRAND, E. F.

INVENTORIED DATE OCT 1 1962

1. Completed Air-Gun problem (102-4 program) for W. W. Walker.
2. Programmed and run on 102-4 two probability problems for Don Owen.
3. Programmed subroutines for IBM 704 for neutron diffusion problem for H. Ragsdale and G. Mehl.

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JUNEKEIN, M. E.

1. Continued study of IBM 704 system.

2. Completed tunnel nozzle design problem for John Weydert, 5143.

3. Programmed and run trajectory problems on the IBM 704 for 5230 with C. R. Rogers, 5242. This required travel to Pacific Proving Ground.

4. Attended classes on Modern Algebra by H. Wicks.

KARTHAUSER, D. T.

1. Completed gathering neutron data for the Bomb Case Program in Bert Lindsay's absence. Currently in the processes of completing and checking out a simplified model of the Bomb Case, and planning an advanced version of the Bomb Case Program to admit consideration of more parameters.

MORRISON, D. R.

1. Attended Supervisory Orientation Program.

2. Completed subroutine library program with E. G. Young and E. W. Whisler.

3. Initiated work on a generalized trajectory program with J. M. Ortega.

4. Calculations on Monte Carlo accuracy.

5. Recruiting trip to University of Wisconsin and University of Kansas.

ORTEGA, J. M.

1. Trajectory program continuation for 5141.

2. Tech memos for air defense and trajectory programs.

3. Bessel function problem for H. Wicks.

4. Continuation of wind statistics for E. H. Charles.

5. Preliminary research on new trajectory program.

6. Attending classes on Modern Algebra by H. Wicks.

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RADSDALE, L. H.

1. Completed modifying output calculations and output program for neutron diffusion problem (non-homogeneous atmosphere).

   a. Assembly, checkout and rearrangement of program to be contained in single core 704.

   b. Minimum of 50 hours production running on (1).

2. Completed programming balloon trajectory problem for C. E. Abraham and W. H. Bradford.

   a. In first stages of checkout.

SANTOS, T. C.

1. Compiled data for use in the Bomb Case program.

2. Programmed, debugged, and run a problem for H. Wicke using Chebyshev's approximation.

3. Programmed, debugged, and run a second problem for H. Wicke (Special Series).

4. Programmed and run for D. Marrison an example of the Geometric Progressions Modulo m as random number generators.

5. Attending classes on Modern Algebra by H. Wicke.

SCHATE, J. A.

1. Made predictions for sighting satellites. Trained E. A. Aronson, 5242, to compute the location of satellites. Gave two talks on satellites.

2. Solved two problems for F. G. Blottner, 5141.

3. Attended technical orientation school.

4. Recruiting trip to UCLA and California Institute of Technology.

5. Studied celestial mechanics.

SHIVER, A. M.

1. Hand computation on wind statistics problem for Dale Young.

2. Ran trajectory program for Jim Ortega.

3. Attended brief tech orientation.

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APR 1 1958

Mr. S. G. Night -4- Ref. Sym: 5126 (6)

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✓ 4. Hand computation for Joe Hankins.

✓ 5. Programming a problem for George Stenk.

VAN DELINDER, P. L.

✓ 1. Operated CRC 102A.

✓ 2. Keypunched cards for 704 and 1103A computer programs.

WESTON, M. K.

✓ 1. Completed diode efficiency program for 102-A computer and plotter.

✓ 2. Wrote 102-A computer subroutine for passing a cubic through 4 points for J. A. Schatz.

✓ 3. Wrote two 102-A subroutines for computing integrals for M. Wicke.

✓ 4. Wrote 102-A floating point e^{-x^2} subroutine for library.

✓ 5. Worked with D. T. Earthouser on Bomb Case program for IBM 704 computer.

WICKE, M.

✓ 1. Gave lectures on Modern Algebra to programmers.

✓ 2. Did numerical analysis of problem for Millwright and Randall, 5142.

✓ 3. Did study on comparison of various pension plans for Employee Services Department, 3120.

✓ 4. Ran some empirical comparisons of Chebyshev approximations of various degrees.

✓ 5. Checked and extended tables on Fermi-Dirac integrals.

YOUNG, R. A.

1. Programming for digital computers:

✓ a. A program for predicting failure by M. Cowan method.

✓ b. A program to compute a table for F. G. Klottner, 5141.

✓ c. A program to compute wind statistics for Larry Smith, 5110.

✓ d. A program to compare Sandia retirement plan with the Western plan and with suggested changes.

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2. Attending classes on Modern Algebra by R. Wiain.

YOUNG, E. G.

1. Operating CRC 102-A computer. This includes debugging programs.

2. Checking and compiling subroutine library for 102-A.

3. Studying IBM 704 and Share system of programming.

4. Programming subroutines by Share system on Bomb Case Neutron Diffusion problem in collaboration with D. T. Earthauser.

5. Programmed and run distribution problem for George Steck on 102-A.

WHISLER, W. W.

1. Operating CRC 102-A.

2. Programming some problems and routines for the CRC 102-A.

3. Assisting H. Galvin with maintenance and modification of Plotter and maintenance of CRC 102-A.

4. Operating IBM 704 at Kirtland.

5. Minor programming and program changes for 704 programs being run.

6. Programmed additional problems for G. Steck's studies of Data from Radar Testing for W. Osborne, 1652-1.

Original Signed By
D. R. MORRISON

D. R. MORRISON - 5126

DRM:5126:ca

Distribution:
1/Ea - S. G. Hight, 5100
2/Ea - W. W. Hladson, 5120
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6/Ea - R. E. Glassman, 5150
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8/Ea - File, 5126

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