MELPAR-A-GRAPH

MELPAR, INC. • A SUBSIDIARY OF WESTINGHOUSE AIR BRAKE CO.

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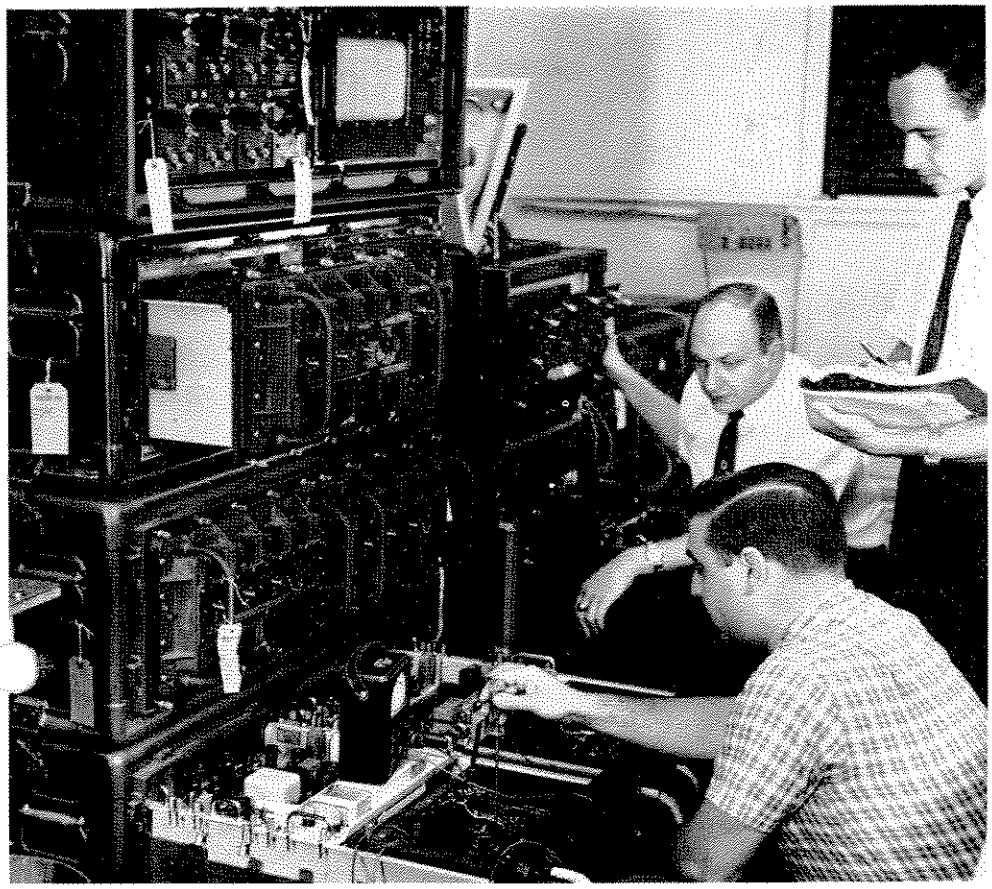


FINAL CHECKUP is given the T-12 Dynamic Tester, at Melpar-Watertown, prior to shipment. The tester, an analogue version of the earlier T-9, is normally used in testing artillery to predict results of theoretical fire and thus save costly actual firing. The unit may be applied to testing of missiles if present studies prove out.

Engaged in wringing out the system are Technician G. A. Moscaritolo (front) and Project Engineer R. S. Gordenstein (rear), while Engineer F. E. Caplan (standing) records performance.

Photo by Larkin

CHEATAM ELECTED CHAIRMAN OF IRE PROFESSIONAL GROUP

The announcement of the election of Dr. T. P. Cheatam, Director of Research, as National Chairman of the Professional Group on Information Theory of the IRE was made last week.

The results were announced by the Administrative Committee of that group. His appointment marks the third time a Melpar employee has served as National Chairman of an IRE Professional Group.

R. I. Cole and the late Dr. W. G. Tuller previously served as National Chairman of Professional IRE Groups.

NAVY AUDIT BRANCH OPENS HERE

Concurrent with the expansion in programs, personnel and facilities of an ever growing Melpar, comes the establishment of an official U. S. Navy Branch Audit Office located in the Accounting Department at the Falls Church Plant.

The new office is headed by Mr. C. J. Merrill, Chief Auditor formerly of the Branch Audit Office at Silver Spring, Maryland. He will be assisted by Staff Assistants Mr. L. L. Menzer and LTJG R. W. Olson, along with Mrs. F. R. MacLeod.

In addition to Melpar, the new office will handle audit matters relating to all Navy contractors in the northern Virginia area.

SIMULATOR GAINS NEW JOBS — NEW TEST SPACE

The acquisition of both new space and new jobs have heightened the already quick pace of Melpar's Simulator Group.

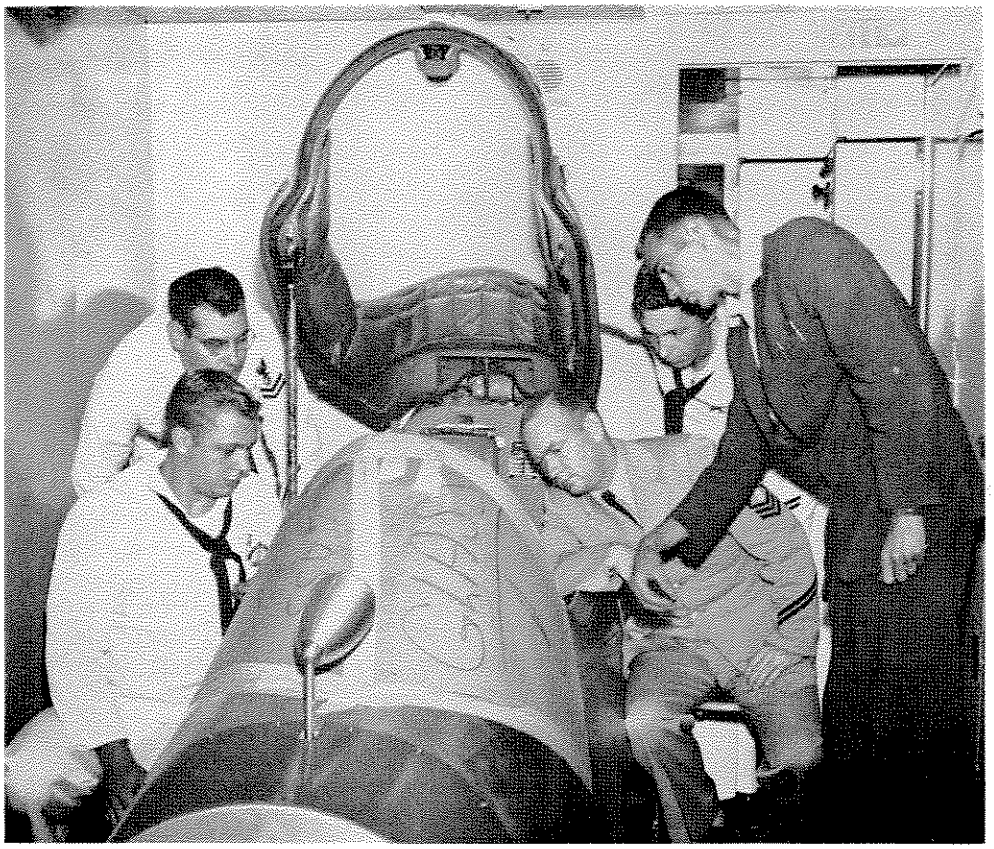
A new contract adds another type of helicopter simulator to the one currently being developed and built by the company. The new contract is for a quantity of HSS-2 Aircraft Simulators. The systems, each requiring two large vans of equipment, simulate the operation of the single main rotor-ship based aircraft, which is powered by twin gas turbines.

Director of Contract Administration N. J. Sargis, in announcing the 2.2 million dollar job, noted that Melpar is the only firm actively working on helicopter simulators for training.

Another new job provides for modification of two A4D Simulators to include tactical equipment recently added to the aircraft and to provide the device with night fighter training capability. The 1.1 million dollar contract was released by the Training Devices Center, Office of Naval Research.

Meanwhile new space has been found which will fill the unique requirements for building the world's first genuine pilot training helicopter simulator with full visual effect. Project Manager L. C. Wright needed a building with two very special interior dimensions: it must provide a 30 foot clear span to the roof, and free inside space having a 21 foot radius. Wall to wall, the building's interior had to be at least 52 feet long by 46 feet wide.

After many months of intensive search, General Services Director R. B. Marsh and members of his staff have located and leased such a facility at Manassas, Virginia. After some "make-ready" work the 9000 square foot building will house the assembly and testing operations for the H-37 Helicopter Simulator trainer, now being built for Training Devices Center, Office of Naval Research, under the direction of Project Engineer in Charge, T. G. Walkinshaw.



NOW HEAR THIS . . . Field Service Engineer L. W. Johnson goes over simulator field operation with Navy men being given training on the A4D Simulator at the Falls Church Plant. Paying close attention are TD2 W. J. Szelich, TD2 A. A. Albenze, TDCA L. J. Harkins and TD1 J. J. Barnes. Mr. Johnson, normally stationed at the NAAS, Edonton, N. C., was called in point out areas requiring special attention as indicated by the field operation of the simulator. Photo by Tatroe

TRAINING IMPORTANT PART OF SIMULATOR FIELD OPERATION

Training Supervisor W. R. Sherman, responsible for equipping personnel with knowledge to keep Melpar's flight simulators operating properly in the field, recently bid farewell to four Navy men who completed a factory course on the A4D simulator.

Arrangements were made for individual instruction by the various simulator design groups and later the four men were brought together to observe acceptance and checkout testing.

The Navy men were then returned to their field assignments where they will work in close contact with the Field Service Engineers.

Establishing instruction courses for military personnel, as well as transition classes for Melpar Field Service Engineers, Mr. Sherman coordinates and plans the various training steps as part of the activities of Field Service.

Similar methods of training will be used to familiarize personnel with the field operation of the F-101B and the H-37A trainers currently being developed at the Falls Church Plant. Mr. Sherman is now assembling material to be used in giving these courses.

Mr. Sherman joined Melpar in October 1956 after retiring from the U. S. Navy where he was long associated with training and electronics.

SPACE AGE STUDY PROGRAM STARTED AT MELPAR BOSTON

Melpar's entrance into the space age was signalled early this month when Melpar-Boston was granted an Air Force contract for a Space Vehicle Protection Study. Presenting new challenges to Research Department personnel, the program is aimed at developing and exploring new concepts.

The Falls Church Chemistry Laboratory, under Section Head Dr. P. E. Ritt will perform certain portions of the program.

Senior Research Engineer J. F. Lee along with Research Engineers J. D. Hayden and S. F. Smith will investigate many techniques to achieve their purpose.

Approaches which will be used may not be divulged at this time because of the security classification assigned to project.

The contract is being supervised by the Rome Air Development Center.

MELPAR'S GROWTH CONTINUES DURING FIRST HALF 1958

While the rest of the country fretted about the recession and unemployment during the first half of the year, Melpar continued to grow and expand.

Gross new business written into the order books during the first six months of 1958 totaled 30.1 million dollars, an increase of 7 million dollars over the same portion of 1957.

Milestones were passed along the way; Melpar-Boston employment approached the 100 mark for the first time; new space was occupied at the Columbia Pike Plant; construction of new buildings on Hardin Avenue was started; employment at Melpar reached an all-time high, gaining 290 people to a new total of 4351.

Diligent effort by this number can insure still another prosperous period during the last half of 1958.

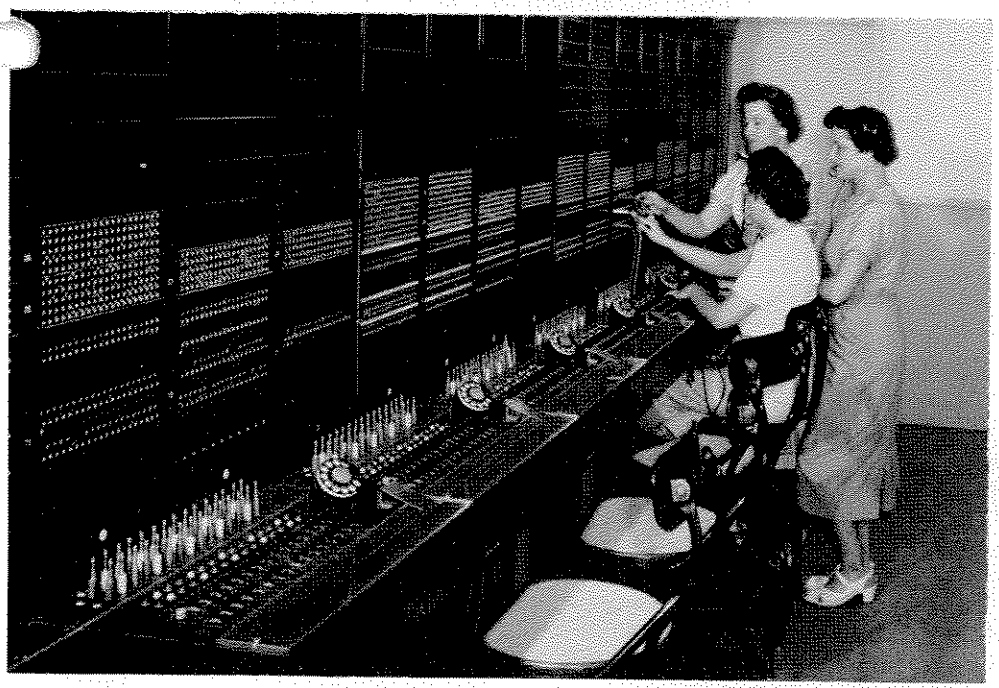
CARPENTER SHOP SET FOR MOVE TO LEESBURG PIKE FACILITY

The move of the Carpenter Shop from the Alexandria Plant to the Leesburg Pike Plant will take place early in August. The Leesburg Pike Plant is located just off of Route 7 east of Bailey's Crossroads on Hardin Avenue.

The building's 8,900 square feet will house the activities of the group headed by Assistant Maintenance Supervisor N. Strobeck.

Groups presently located at the Alexandria Plant will occupy the vacated space.

NEW PHONE SYSTEM NEAR



NEW QUARTERS for the telephone operators are shown as PBX Supervisor S. D. Henry goes over the new board with Operators A. G. Reynolds (seated) and J. E. Fisher (standing). Other operators soon to occupy vacant chairs (but unavailable when the picture was taken because service had to be continued) are: E. D. Rhodes, L. A. McVay, F. M. Gatley, M. E. Barnett, E. M. Beauch and M. L. Weetman. Photo by Norton

Historians will little note nor long remember August 18, 1958 but Melpar people will long recall it as the day when our telephone troubles responded to the plasma of a completely new system, one designed to meet our ever expanding needs.

Requiring over a year of preparation and preliminary work, the system will be one of the largest commercial installations of its type on the Eastern seaboard and will link all northern Virginia plants, with the exception of Alexandria, through the use of a four digit direct dial system.

People who dislike change will dislike the new system, as every telephone number at Melpar will be changed to fit into the pattern. But, let them place one call to another plant by simply twisting the dial four times and a beautiful friendship will flower.

A new seven position switchboard has been installed at the Falls Church Plant with all incoming calls being directed automatically to that point. Separate positions for information and paging operators will complete the new facility.

As we said at the beginning—Historians will little note, but since you are not an historian—will you note—Monday, August 18—starts four digit direct dial.

MELPAR AUTHORS TO PRESENT PAPERS AT WESCON MEETING

The largest number of Melpar men ever to present papers at the same convention will be on hand at the 1958 WESCON IRE Convention to be held August 19-22 at Los Angeles, California. The selection of the papers, two of which were authored by men from Section Head-in-Charge D. C. Cleckner's Antenna Group, was announced earlier this month.

"The 360 Degree Parabolic Torus Antenna" is the subject of a thesis authored by Project Engineer W. G. Scott, Engineer J. G. Marangoni and Engineer J. D. Barab. The paper will be read by Mr. Scott.

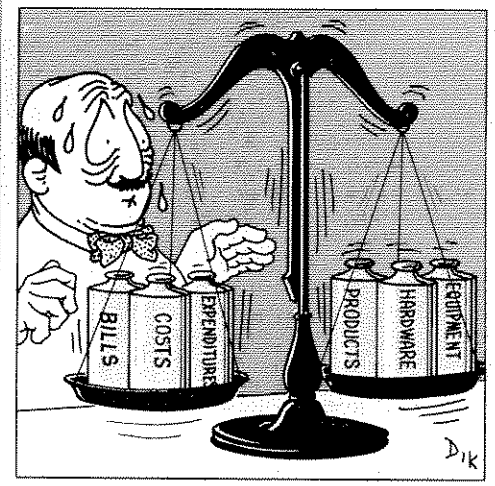
Engineer David Alstader's paper describes techniques which have been developed to facilitate the design of low loss r-f multiplexers within the frequency range of 4.0 to 15.0 kmc. Mr. Alstater also co-authored a paper with Senior Engineer E. O. Houseman dealing with the simplified design of Strip Transmission Line Multiplexers. The papers will be read by Mr. Alstader and Mr. Houseman.

Technical Staff Assistant S. J. Campanella will read a paper entitled "A Survey of Speech Bandwidth Compression Techniques."

Budget Control Gives Fiscal Status of Job

Success in any undertaking is largely the result of good planning and teamwork, particularly in money matters (as anyone who has ever tried to balance a household budget knows!) A good illustration of this principle at Melpar is the Engineering Planning and Budget Control system.

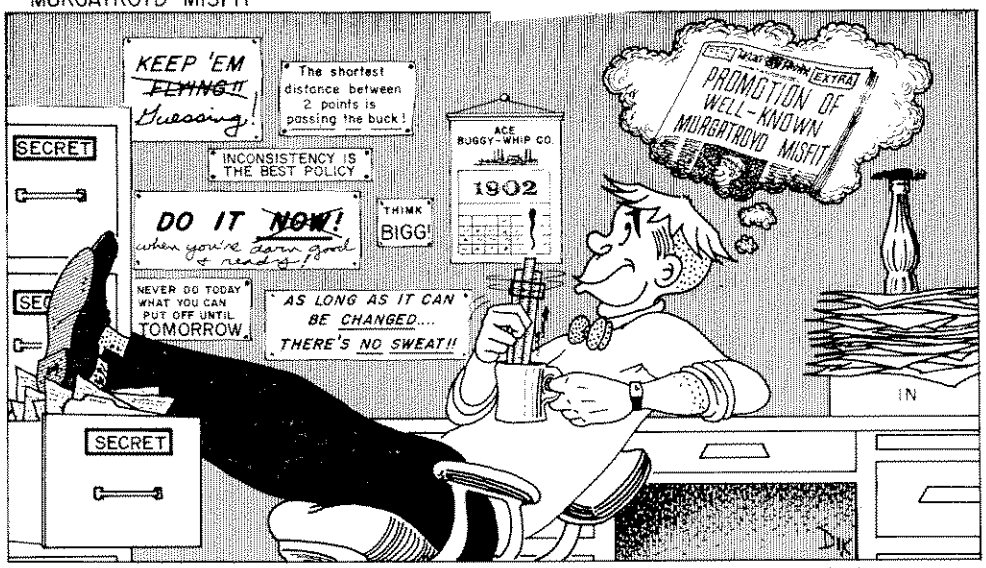
Coordinating the effort for Engineering is Mr. E. H. Bradley, Assistant to the Chief Engineer. Mr. George Moreland, Staff Assistant to the Comptroller, and Mr. William Dupree, Staff Assistant to Quality Control Supervisor, have the same function for Accounting and Quality Control respectively, while the Office of the Company Consultant coordinates and monitors the entire operation. Fifteen budget clerks stationed at the scene of operations provide the information vitally essential to the system's success.



Designed to alert responsible supervisors against potential fiscal difficulties, the system provides the job supervisor and management with an indication of the current job status in terms of the current and projected expenditures as compared with the technical progress to date. Furthermore, it provides the necessary information upon which to base corrective action.

The system consists of three phases: the bid estimate; job planning; and budgetary data feedback or Budget Control. With the three phases functioning interdependently, it is possible for the project supervisor to know exactly the current status of his job in terms of actual expenditures and commitments and projected expenditures and commitments thereby more effectively controlling all fiscal aspects of his responsibility.

MURGATROYD MISFIT by dick prescott



The idea is good, Murgatroyd, but there is something about your methods.

H. T. Ward, of Falls Church, has been promoted to Section Head and P. F. Scheidegger and C. W. Morrow have advanced to Project Engineer. M. M. Smith, of Boston, has been promoted to Technical Editor and J. L. Schipelliti, of Watertown, moved up to Leadman.

At Arlington, O. H. Bly and J. F. Dennis advanced to 1st Class Light Assembly Task Leaders. J. G. Parrish was promoted to Mechanical Inspector 1st Class.

Moving up to Engineer were: W. J. Clark, of Arlington, E. H. Katz, of Falls Church, C. V. Moyer, of Bailey's Crossroads, and R. K. Byard, of Columbia Pike. R. E. Shepard, E. J. Todd and N. E. Crider were promoted to Field Service Engineer. M. R. Seiler rose to Senior Physicist and E. D. O'Neil advanced to Senior Field Administrative Engineer.

Falls Church promotions include: T. W. Klinger, to Field Service Engineer, K. E. Wheelock, to Assistant Fabrication Supervisor, and W. T. Cradlin to Assistant Technical Writing Supervisor.

F. J. MacDonald rose from Engineer to Senior Engineer while C. S. Krakauer, V. J. Kaneski and W. C. Rohlman also advanced to Senior Engineer.

A. J. Andrews and J. C. Atkinson, of Falls Church, rose to Lead 1st Class Wire Technicians while R. D. Cathell and R. L. Brooks moved up to Assistant Fabrication Supervisors. I. N. Corbin rose to Lead Mechanical Technician.

J. F. Delaney was promoted to Project Engineer and L. D. Jessee to Lead Technician. W. H. Fuhr moved up to Senior Engineer. J. E. Shepard advanced to Carpenter Group Leader and T. W. String to Engineering Assistant.

H. L. McMillion rose to Heavy Assembler, 1st Class. F. L. Wood moved up to Accounts Payable Clerk and J. T. Vollmer was promoted to Junior Planner. G. F. Morgan advanced to Electro-Mechanical Inspector 1st Class.

Watertown promotions show L. J. Pouliot moving up to Engineer and D. A. Harrington to Print Control Leadman. C. L. Fobes rose to Wire Technician Leadman and F. L. Dellazoppa to Wire Technician Group Leader. F. J. Dillon advanced to Wire Technician, 1st Class.

At Arlington, J. J. Miller has been promoted to Engineer and D. L. Lott rose to Electrical Test Group Leader. C. E. Dean, H. L. Ross and R. L. McGee, of Arlington, were promoted to Sheet Metal Man 1st Class. F. K. Marshburn advanced to Senior Planner.

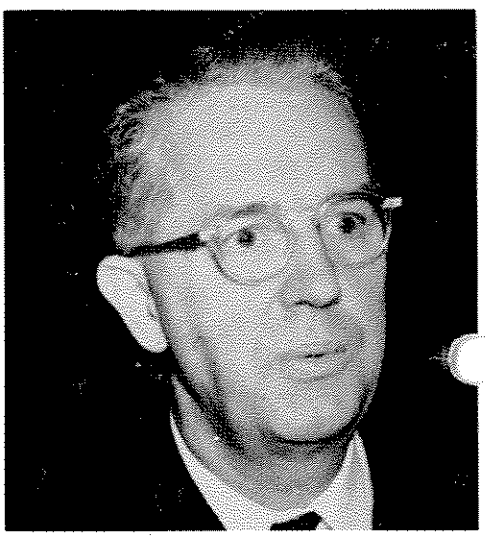
At Watertown, B. J. Ahern was promoted to Clerk A and R. L. Phelan rose to Planner. J. A. Miller, of Falls Church, moved up to Experimental Machinist. B. J. Tugman and B. H. Marsters were promoted to Secretary.

J. L. Rosso advanced to Mechanical Technician 1st Class and J. A. Vanzant, of Bailey's Crossroads, rose to 1st Class Lead Wire Technician. David Alstader, W. H. Koch and B. L. Kilday were promoted to Senior Engineer. W. H. Stewart and R. M. Eggleston were advanced to Senior Field Engineer and D. M. Harms moved up to Engineering Assistant.

Arlington announced the promotions of C. C. Travers to Dispatching Coordinator and J. M. Ryan to Methods Supervisor. Eli Parrish moved up to Test Supervisor. E. C. Anders, of Watertown, advanced to Senior Technical Writer.

CONGRESS AWARDS SAFFORD $100,000

Senior Engineer L. F. Safford of Project Manager B. R. Boymel's group at the Columbia Pike Plant was awarded $100,000.00 by an Act of Congress last week. Safford, a retired Navy Captain, received the award for devising more than 20 cryptographic systems and allied apparatus during his 37 years of naval service. The measure was signed into law by President Eisenhower on July 23, 1958.



Lawrence F. Safford

Senator Saltonstall from Massachusetts, co-sponsor of the bill, said Captain Safford . . . "was the one man, more than any other, who was responsible for rendering our codes safe from analysis by the enemy during World War II."

He pointed out that Safford's contributions to the national security had been cited many times and that the late James Forrestal, as Secretary of the Navy, in presenting him a Legion of Merit said he was "the driving force behind the development of the general cipher and call-sign cipher machines which give the Navy the finest system of encipherment in the world."

Captain Safford joined Melpar in February 1955. He is a graduate of the U. S. Naval Academy and a Senior Member of the IRE.