

# PULSE

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## SKYLAB TVC CONTRACT AWARDED EMR-T BY NASA

A major contract, valued at over \$800,000, has been awarded to EMR-Telemetry by NASA's Goddard Space Flight Center for Time/Voice Correlation systems to be installed at tracking stations around the world and for Demultiplexers to be used at NASA's Manned Spacecraft Center in Houston.

These ground-based electronics systems will be used during the flight of NASA's Skylab, the nation's first embryonic space station, due for launch in 1973. Our Time/Voice Correlation equipment will be used at 14 Remote Site Substations associated with the worldwide network of Skylab tracking stations.

To assure satisfactory completion of the NASA/GSFC TVC Program, a Program Manager/Program Team concept will be utilized reporting directly to our Vice President.

Program Team members are: Program Manager, Barry Barton; Program Administrator, Tom Fultz; Marketing, George Tremain; Engineering, Dave Colin; Contracts, John Brady; Manufacturing, Frank Bloechl; Technical Manuals, Walt Eppard; Procurement, John Moore; Quality Assurance, Rex Van Tassel.

During the Skylab missions, continuous voice and data broadcasts will be made from the orbiting Skylab. On-board recordings of vital information will be played back to earth after each orbit. Our equipment  
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## CREDIT UNION DECLARES OVER \$6,500 IN DIVIDENDS

Over \$6500 in dividends have been credited to members' accounts as of July 1, 1972, by the EMR Sarasota Employees Credit Union, according to Treasurer Gary Bowers. The dividend rate declared was 2-3/4% semi-annually (or equal to 5-1/2% annual rate).

Newest EMR Credit Union service is the establishing of a "Line of Credit" for loans--up to \$2500--which you, as a member, may apply for before you need the money. Once the Credit Committee has approved your "Line of Credit" for the amount you specify, you may request a loan of any amount up to the approved level and get your loan much faster and more conveniently. You pay interest only when you actually borrow money, and then only for the amount you borrow. There is no charge for establishing your "Line of Credit." Applications for Line of Credit loans are now being considered by the Credit Committee.

More good services from your Credit Union have been introduced. One is American Express Travellers Checks at no additional charge. That's right, no service charge for Travellers Checks. You may buy \$100 worth of travellers checks--the safe travel money--and it costs you exactly \$100 and no more.

Another big benefit for members: As of July 1, your friendly EMRSECU will pick up the tab on all documentary stamps for all loans--saving you even more money.

# DESIGN AND DRAFTING MOVE TO NEW QUARTERS

Our Design and Drafting Groups in Engineering have been busy moving into refurbished quarters featuring improved working conditions--better lighting, reduced noise level, and more efficient layout.

"We've been planning this improvement for a long time and expect it to be a much better arrangement for all," says Skip Bailes, Design and Drafting Manager.

Now located in the former "Telescope" clean room off the south corridor of our Engineering Building are the Mechanical Design and Printed Wiring Design groups (Drafting Room #1). Adjoining this room and immediately to the west is our Services group (Drafting Room #2) including the Engineering Document Center. Access to EDC is through Services (Drafting Room #2).

Another change is relocation of Harold Leslie and Bill McNabb, of Components & Standards, to the Technical Information Center area (Library). Here is a run-down of who's where in the new Design & Drafting set-up:

## DRAFTING ROOM #1

Mechanical Design: Ken Clair, Don Norris, John Turpin.

Printed Wiring Design: headed by Lead Designer Bill Salter; Dwight Dagenais, Stan Krosley, Tom Littlewood, Sal Martino, Jim Russell, Contract Employee Herm Smith and Ed Tafelski.

## DRAFTING ROOM #2

Services: headed by Lead Designer Skip Brawn; Jerry Apple, Ron Basham, Gladys Beard, Norma Davis, Dan Eckroad, Jim Horvath; EDC: Dawn Hirter, Laurel Riley.

Another part of Services, our Engineering Photo Lab, remains in its special darkroom facilities near the center of the S-3 portion of our Engineering Building. Betty Austill and Lela Kallio are located there.

Components & Standards: headed by Harold Leslie. Alice Armstrong, Harold Leslie and Bill McNabb are now located in the Technical Information Center (Library) and Doris Roberts continues in our Engineering Stock Room in its same location.



In Drafting Room #1: Jim Russell and Tom Littlewood in foreground; Dwight Dagenais, Contract Employee Herm Smith, Stan Krosley, Sal Martino and Ed Tafelski in background.



In Drafting Room #2: Dan Eckroad, Skip Brawn, Jerry Apple, Jim Horvath, Ron Basham, Norma Davis, Dawn Hirter and Gladys Beard.

Dawn Hirter and Laurel Riley at EDC window ---



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## EMR WEIGHING DIAPERS? YES, WE MEASURE ANYTHING!

Stan Baron, Group Leader in Test, said he was checking out some EMR-Instruments equipment last week that would be used to weigh diapers.

"Did you say to weigh diapers?" we asked. "Yes, weigh diapers!" he said patiently.

The instrument, called a Process Variable Monitor, measures the weight, size, shape, thickness or any other variable of a product passing by on a moving belt of an assembly line. The result is to control the quality (or quantity) of the product -- whether it be paper, aspirins or diapers.

In this case, weighing the diapers assures that each package of the disposable diapers contains the proper count so that customers are not short-changed.

The order just completed and shipped was for four EMR-Instruments Model 660 Process Variable Monitors to be delivered to Hi-Speed Checkweigher Co., Ithaca, N. Y. This customer has ordered quantities of this instrument over the years for use in its own systems which it supplies to manufacturers requiring this type of process control. Endusers include paper makers, pharmaceutical and chemical houses, and, yes, diaper makers!

## JPL ORDERS EQUIPMENT FOR DEEP SPACE NETWORK

EMR-Telemetry has been awarded contracts by Jet Propulsion Laboratories, California Institute of Technology, for automatic checkout systems to be used in connection with the JPL Deep Space Network. Value of the contracts is about \$300,000.

Three systems are to be installed at tracking facilities, at Goldstone, Calif., in Australia and Spain, according to Carl Steineckert, our District Sales Manager in Lancaster, Calif.

EMR equipment involved includes units in our 4000-series FM product line and special system design for digital switching matrixes and computer interface. These units, along with other furnished equipment, will be integrated into a complete system. Joe Faso, of Aerospace Systems, has been designated Project Engineer on the contract.

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## EMR'S WATER QUALITY SYSTEM BEGINS TOUR

EMR's new Water Quality Monitoring trailer/demonstration unit has embarked on a series of demonstrations, beginning right here at EMR in Sarasota.

First showing was to employees at the back of our Cafeteria Building on Monday, July 17, followed by a demonstration for the Sarasota public which took place in front of the Administration Building on Wednesday, July 19.

Our WQM system goes on tour next week, starting with two days of demonstrations in the Tampa area. Showings are scheduled at the Hillsborough County Environmental Protection Commission, 906 Jackson St., Tampa, on July 24 and 25. Other demonstrations will take the EMR water quality measurement system to Tallahassee, Jacksonville, Miami, Washington, D. C., and the midwest.

Staffing the demonstrations in Tampa will be Bill Hardman, Jerry Radwell, Ed Kucharski, Richard Davies, Milt Litwiller, Larry O'Connor, and Phil Potts.

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## AUTO MAKER ORDERS FATIGUE TEST EQUIPMENT

Ford Motor Company, Dearborn, Mich., has placed an order with EMR-Instruments for a Profiler system to be used in rear axle fatigue testing. The five-channel 1641 Profiler system is scheduled for delivery in November.

## MODERN "PIONEER" HEADS SOUTH

As he hurries down the EMR hallway, Bill Buck, our Instruments Marketing Manager, is easily recognized. He's the dynamic young Englishman whose energetic stride is usually accompanied by whistled snatches of Bach, Vivaldi or his own musical compositions.

These days his step is even quicker as he approaches the realization of a long-time dream -- moving with his family to the North Island of New Zealand, where they will make a new home on 10 acres of low, rolling hills in a temperate climate. They may even raise cattle.

Bill is an aggressive marketing man who has many other talents--organist, choir director, composer, gourmet cook, and now "pioneer" preparing to move to that far-away island near Australia.

"We'll be about 30 minutes from Auckland, a city of 750,000, but we'll be out in the country in a village called Rama Rama, south of Papatoetoe. I plan to move an old farmhouse to the property for our home, and I'll be planting grapes and expect to find employment as Representative for some electronics company," Bill said.

"They say New Zealand has 100 million sheep, 20 million cows, and 3 million people," he continued. The two islands are large, but diversified in make-up -- warm sunny beaches, mountains, thermal springs, active volcanos, and in the south almost antarctic snowy wastes.

Mrs. Buck, their daughter, Karen (6), and son, Christopher (4) are enthusiastic about the move. They are looking forward to the month-long voyage--through the Panama Canal, up the West Coast, and across the Pacific, some 12,000 miles to their new home.

Good luck to the Bucks in pursuit of their dream. The spirit of adventure lives on.

## JUNE ORDERS ARE UP

Total June orders for EMR in Sarasota reached the highest level for one month since the mid-sixties, according to General Manager W. T. Long. Much credit for June's performance is attributable to winning the NASA TVC contract, and concentrated effort by many people. Demand for standard products continues strong.

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## ANNIVERSARY GREETINGS

Some 47 of our colleagues are observing service anniversaries during July, including the following major milestones of 10 and 15 years:

1957: Ida Pape, George Strait

1962: Bob Anderson, Dwight Dagenais, Gwen Santaniello, Paul Shetler, Bob Voss

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## SKYLAB TVC CONTRACT (CONT'D)

ment will monitor the quality of the data while Skylab passes over a tracking station and will aid in processing the data after station contact has been completed. EMR-T's equipment will locate, correlate and reconstruct the time code and recorded voice signals, and then prepare the information for rapid transmission over special telephone lines to NASA's Manned Spacecraft Center in Houston.

Our Marketing Team which won this TVC contract was headed by George Tremain, TDM Product Manager in Aerospace Marketing, and Barry Barton, TVC Program Manager.

In addition to this ground-based equipment, EMR-T has provided airborne equipment that will be inside Skylab. Under our "Airlock" contracts, two complete PCM telemetry systems for the Skylab missions have been delivered to McDonnell Douglas Astronautics Co., St. Louis. Another smaller telemetry system has been supplied to Block Engineering, Inc., for use in connection with one of the Skylab scientific experiments.