

What's it all about, Jimmy?

A close look at Civil Service Reform (first of two parts) page 5

The Redstone Rocket

VOL. XXVII; NO. 30 DECEMBER 13, 1978

'Don't eat the fish': EPA, TVA

The Environmental Protection Agency and Tennessee Valley Authority have issued announcements reaffirming that fish in the Tennessee River and tributary streams around Redstone Arsenal contain high levels of DDT and should not be eaten.

The public health announcements were made last Thursday following release of a TVA study which found high DDT content in fish in Huntsville Spring Branch and Indian Creek, and in the Tennessee River for several miles upstream and downstream of the arsenal.

Similar warnings were issued in September 1977 after the Army ran a series of tests that show contamination in fish resulting from insecticide waste left in

arsenal streams by a DDT manufacturing plant formerly operated here by Olin Chemical Co.

TVA has recommended that fishing be banned in the affected area.

In the contamination study TVA said their tests indicate more than 4,000 tons of DDT is deposited in a 2.3 mile segment of Huntsville Spring Branch from that site of the old DDT manufacturing plant downstream to Dodd Road. Along that reach the stream is shallow, slow-moving and wide. While DDT was found in lesser amounts at core sampling points downstream, the embayment bounded by Dodd Road contains 96 per cent of the DDT in the stream, according to VA calculations.

In tests of fish TVA found DDT content as high as 200 parts per million. Levels of more than 400 ppm were found in fish analyzed by the Army last year. The only standard on allowable levels of DDT in fish is one set by the U.S. Food and Drug Administration which prohibits the sale in interstate commerce of fish containing more than 5 ppm DDT.

Dr. Harry G. Moore Jr., TVA director of environmental planning, said a ban on fishing in the area should be considered by the state of Alabama or U.S. Fish and Wildlife Service. That is a step the state appears to not want to take, since the state

(Continued on page 7)

DARCOM gets full control world-wide

Army TMDE calibration, repair centralized

By KATHY HOUSE

The Department of Army has announced a new policy for the calibration and repair of test, measurement, and diagnostic equipment (TMDE). Both the calibration and repair of the equipment will now be under the centralized control of the Army Materiel Development and Readiness Command (DARCOM).

The new policy, which will also include the consolidation of Level A and Level C calibration programs, puts DARCOM in full control of active Army TMDE world-wide, during peace or war. The plan, which will be put into effect in Europe in late 1979, is expected to increase materiel readiness and reduce costs.

The need for a new approach to TMDE

support was recognized by DA after several studies indicated that the present approach was inadequate. In early 1976, DARCOM was directed to develop an improved TMDE support concept, aided by the other Army commands.

Redstone Arsenal had a central role in the DARCOM study. A Senior Officer's Review Board, which worked with the full-time study group, was chaired by the commanding general of the Army Missile Materiel Readiness Command (MIRCOM), first by Maj. Gen. George Turnmeyer and then by his successor Maj. Gen. Louis Rachmeler. As DARCOM's expert in TMDE support, the U.S. Metrology and Calibration Center (AMCC) at Redstone took the lead in pursuing the study.

Frank Westmoreland, head of the Management, Evaluation and Support Division of AMCC, and who was general chairman of the study group, said the group found many problems with the present calibration program.

One of the biggest problems, Westmoreland said, stemmed from the fact that most activities were unaware of the importance of TMDE support.

"All weapon systems are supported by TMDE," he said, "but when the system is designed, often little thought goes into what sort of TMDE will be needed to give the system support. Usually this equipment is chosen at the last minute, which often

(Continued on page 6)



TMDE SUPPORT

Bobby Birdsong solders a component.

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OPINION

Got a nose for news? Let us know about it!

TIM DART HAS written to ask if I know an address or phone number for reaching the Internal News Service (commonly known as "the 112"). This is an easy question, since the Internal News is recorded in the office where I work, the Public Affairs Office. The address here is DRSMI-G. We've got a bunch of phone numbers, all of them in the directory. Take your choice.

Dart also wanted to know whether we would accept news items from outside sources. The answer to this question is yes — IF the item is something that is of general interest to folks on the arsenal.

WHILE I'M ON the subject of submitting news items, I might as well cover submitting things for the ROCKET. First, as with the Internal News, consider whether the news item is something that is of general interest to people at Redstone, and not just to your office or organization. It may not always seem this way to you, but we really do try to have a balanced coverage of events in the ROCKET.

Also, remember that we have deadlines. Most people don't realize it, but the paper is not printed here on the arsenal, or even in Huntsville. The ROCKET is published by a firm in Hartselle. For the paper to come out on Wednesday morning, finished copy and pictures must be in Hartselle by Monday afternoon.

So, if you want to print an announcement in the ROCKET, we need it — at the very latest — on the Monday morning before you want the announcement to appear. If you have an idea for a story and would like to

House Calls



by KATHY HOUSE

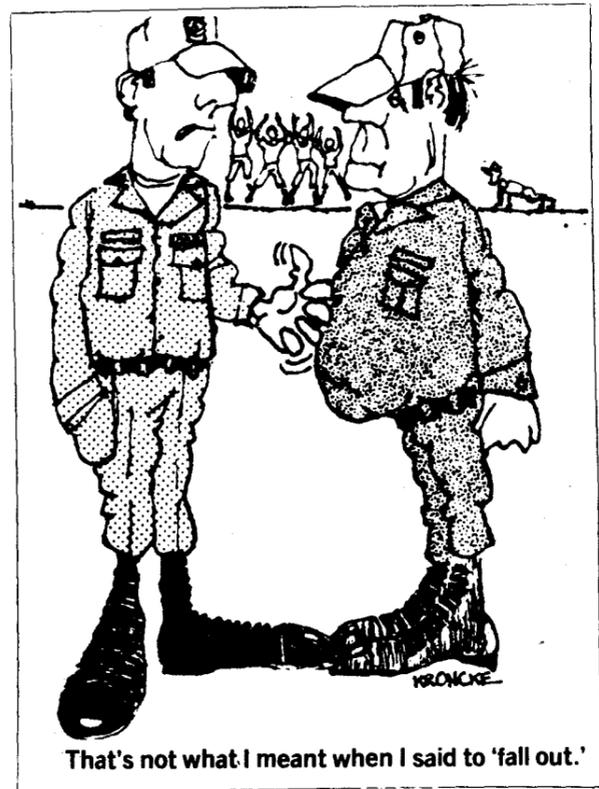
see it appear in a particular issue, you need to get in touch with us a week or two in advance, so we'll have plenty of time to arrange interviews, gather information, get photos, and so on.

Photographs take more time than you might think — we have to schedule a time when a photographer from the Photo Lab can come out to make the picture, and then the Photo Lab has to process and print the picture. The Photo Lab has other responsibilities besides doing work for ROCKET, and the people there can't always give our work first priority. So we need several days notice to guarantee a photo for a certain issue.

Basically, what I'm saying is "the sooner the better." We hate to turn people down for any reason, but there's nothing more frustrating than hearing about a good story or a great idea for a picture when it's too late to do anything about it. So help yourselves and us, too — when you have something for us, get it to us early.

AS COMIC RELIEF for this otherwise serious column, I'd like to drop the name of my friend, Glen Adams, who has been

begging me to mention him in HOUSE CALLS. If anyone else asked for a mention, I'd tell him to think up a question or do something significant if he wanted to be in the column. However, I know Glen isn't capable of much thought and he'll certainly never do anything significant. So he gets this one gratis. Send this home to Mom and Pop, Glen.



THE REDSTONE ROCKET

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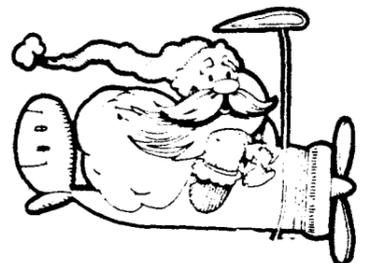
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It's the real thing . . . almost

By BOB HUBBARD

Don Holder and Bill Phillips peer intently at the valley below, their eyes probing, seeking tell-tale shapes as they flash across familiar North Alabama and Tennessee Valley landmarks.

Redstone researchers both, they note at once ant-sized vehicles on country roads winding through open fields and scattered trees, a sprinkling of houses leading to a small community, a lake and a dam in the distance, and low hills rising in the background topped by lazy, fluffy clouds against the blue sky.

Holder, Army mathematician at the controls, tilts the joy stick forward for a closer look at the airfield just off to the right. Suddenly, he spots a cluster of tanks parked in grass just off the airfield apron.

He begins a dive squarely at the tanks! 500 feet . . . 300. The ground and tanks loom uncomfortably close. 100 feet. A crash into the tanks appears imminent. 50 feet . . . now inevitable!

Just as suddenly, the frightening downward plunge terminates and a calm voice shatters the silence:

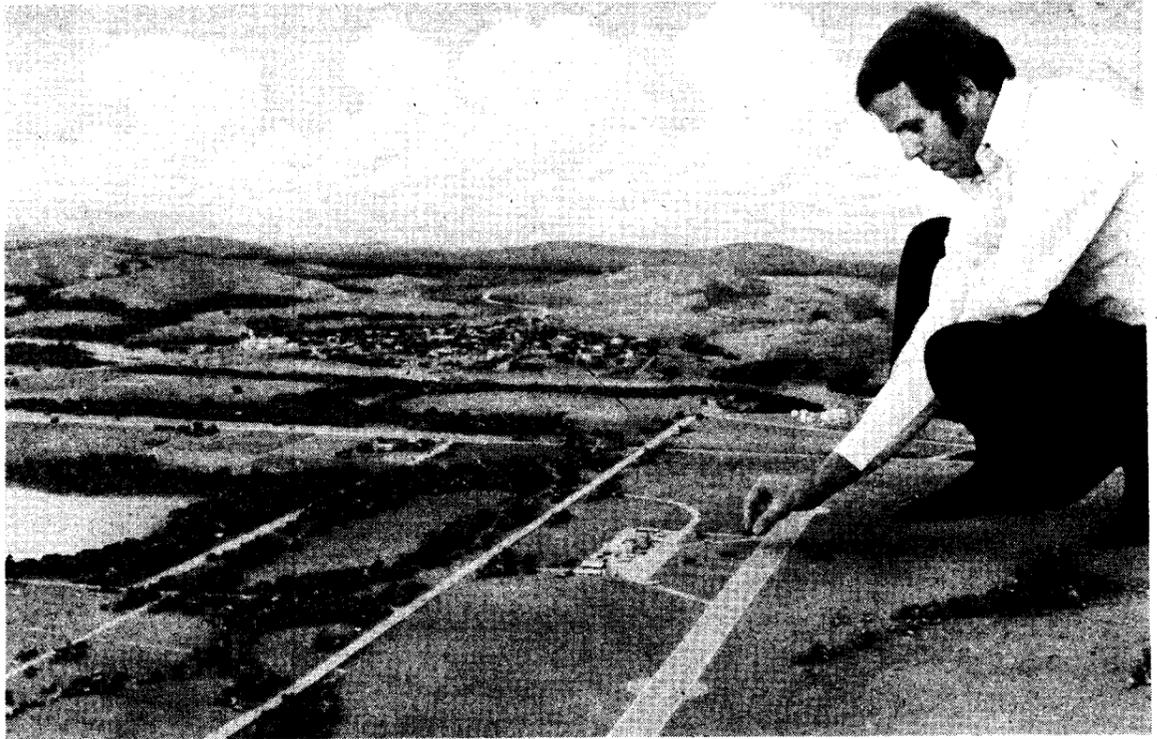
"That was a good run, Don!" Phillips, standing near a flashing control console, yells across the room to Holder, sitting in front of a television monitor and holding a joy stick. "Let's try it again!"

Holder and Phillips, an electronic engineer, are running practice missions in the Army Missile Research and Development Command's (MIRADCOM's) Advanced Simulation Center (ASC), a one-of-a-kind facility housing three test chambers and computers that simulate environments affecting a missile in flight.

EOSS

They're wringing out equipment nearly every day now in the Electro Optical Simulation System (EOSS). The clouds, the bucolic setting, roads, houses, dams, bridges, vehicles, and airfields are fakes, merely models, but look so real that missiles and weapons tested in the chamber can't distinguish from the real world.

The EOSS features a 32-foot-square moving terrain table containing life-like, three-dimensional targets, including one which actually moves. Phil Andrews, a MIRCOCOM illustrator in RASA's Graphic Arts Branch, just recently painted the sky



HE'S REAL, LANDSCAPE ISN'T

Bill Phillips arranges targets on moving terrain model.

background behind the table. And MIRADCOM's Technology Laboratory obtained a probe from NASA's Marshall Space Flight Center that moves across the table for nap-of-the-earth, or extremely close-in simulations.

MIRADCOM has built a control system to computer operate the probe which can descend within an inch of the table, corresponding to fifty feet in the real world.

"With the terrain model, probe and realistic background, the Army can simulate what any optical system would see in the real world," said Phillips, EOSS cell manager. "Since the cell has a lighting system that can simulate everything from starlight to daylight, we can test missiles on their ability to spot, acquire, designate, track and destroy enemy targets under day or night conditions.

"We can perform man-in-the-loop simulations with seekers, remotely piloted vehicles (RPVs), systems like Hellfire, or Helicopter flight scenarios," Phillips said. "The probe, the table and control systems provide pitch, roll and yaw motions that simulate realistic flight."

Phillips said MIRADCOM is wringing out the equipment, flying practice missions over the terrain in preparation for a new command program known as Fiber Optics Guidance Demonstration (FOGD).

Rex Powell, an aeronautical engineer in the Technology Laboratory's Systems Simulation Directorate, is project engineer for the FOGD program.

"This will be a technology demonstration program," Powell said, "to demonstrate and evaluate the use of fiber optics for missile guidance." The fiber optics link, which would be payed out like TOW wire, is a promising new guidance scheme, he explained, much better than wire because it has an extremely wide band width, can handle more information, and is more secure because it's essentially countermeasures free.

Sees what missile sees

"The concept puts the operator's eye in the missile. He sees what the missile sees. Using this technique, we can do more processing, utilize more techniques, yet keep equipment needed to do the job on the ground, not on the missile."

The FOGD program will determine if RPVS, or other similar systems using the fiber optics link, could be used as attack vehicles.

"By using the probe, terrain model and simulator equipment, we can design an optimum system to the FOGD concept," Powell said. "Right now we're attempting to put equipment together and actual flight tests are planned during nineteen eighty."

"We will have equipment already tested, trained operators, and know what it looks like before actually flying," Powell explained.

In addition to Powell, Phillips and Holder, others working closely in the program are Lee Kilbourn, a research physicist in the Systems Simulation Directorate who does technical planning for the EOSS and Infrared Simulation Systems; Chuck Martin and Pete Dufour, EOSS technicians; and Jim Windham, an electronic engineer in MIRCOCOM's Management Information Systems Directorate who develops and programs simulations.



A CLOSER LOOK!

Holder 'flies' the flight vehicle, using joy stick, monitor.

DA reinforces 'special trust'

WASHINGTON (ARNEWS) — DA and local commands will revise regulations and policies to conform with a recently approved DA study that reinforces the "special trust" of Army officers, according to DA personnel officials.

A total of 46 report recommendations were approved to do away with many requirements that a DA official termed "irritants." These include the requirement to obtain a unit commander's approval to submit a pay inquiry, and other requirements for officers to verify paperwork.

The report also contained recommendations to do away with other policies which require DOD approval to discard. The Army will recommend that DOD change these policies, which include issues such as documentation of small reimbursement claims and screening for drug use through urine testing.

Another 67 policies were examined, but are being retained as not violating 'special trust,' the report states. A number of these policies involve security checks and related activities.

The approved recommendations are "common sense," according to one DA official, who pointed to current policies which contain such "needless" requirements of officers as getting a unit commander's signature on a sick call slip.

The revised special trust policies apply to all commissioned and warrant officers.

According to the special trust study report, most changes in policies involve excessive certification procedures, or red tape, that undermine "special trust and confidence in the patriotism, valor fidelity and abilities of an officer."

Rogers lengthens field grade tours

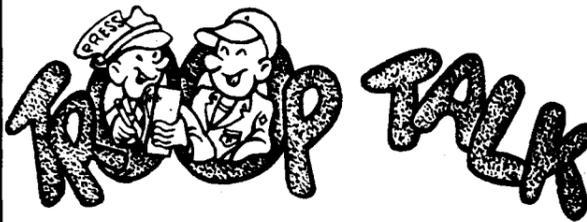
WASHINGTON (ARNEWS) — Command tours for colonels and lieutenant colonels serving in Europe received a permanent extension from 18 to 24 months, according to a policy approved by Army Chief of Staff General Bernard W. Rogers.

Command positions affected by the policy include all those selected by the DA centralized command selection system, according to a DA official. The official added that these make up "virtually all" command tours in Europe, including combat, support and service units.

The permanent approval of the command tour extension follows a test that began in Oct. 1976. Test results, according to the official, showed that stabilizing commanders in key positions improved unit readiness and continuity.

The 24-month command tours for officers in grades O-5 and O-6, the official said, primarily affect commanders of battalions and brigades.

Command tours in Korea, by comparison, are usually 12 months long, the official explained, because Korea is a short tour area. Command tours in CONUS, the official added, are usually 18 months long for FORSCOM and TRADOC units.



What is your opinion of the Army's recent reaffirmation of officer 'special trust?'



2d Lt. David Rupp, Co. C—"I think the Army can trust officers — and enlisted men — more than they have. But then, some 'irritants' within the system are probably necessary. One irritant that could be eliminated is having to show your ID card to get into the PX."



Sp4 Lloyd Cole, MIRCOM—"The Army should be able to trust its officers and it should also be able to trust its enlisted people. But a person is either trustworthy or he's not. It's an individual thing — not a group trait."



Pvt. Steven Hutson, MP Co.—"It's tacky. They shouldn't trust officers more than they trust enlisted personnel. They should have to go through the same channels we do."



SSgt. Robert Dotson, MIRAD-COM—"I think it's good. If they don't possess the integrity, they shouldn't be officers in the first place. This shows that the Army trusts its officers — and they're the ones who manage things anyway. I'd like to see more trust passed down to the NCOs as well."



PFC Joanne Olsen, Co. A—"Anyone who has a chance to get over should take advantage of it. I'd do it too if I could. I guess I'm just jealous."



Sgt. Marlon McCraney, Co. B—"It looks like the Army doesn't trust the enlisted men. Officers are always checking up on the enlisted men and no one's checking on the officers but other officers."

Federal service braces for reform, reorganization

"The times, they are a changin'."

Bob Dylan's lyric is a fitting epigram for today's federal service. On Oct. 13 President Carter signed the Civil Service Reform Act, designed to improve government efficiency and to balance management authority with employee protections. Major features of the Act include an independent and equitable appeals process; protections against abuse of the merit system; and incentives and rewards for good work and skilled management.

Most of the provisions of the Civil Service Reform Act will take effect in January 1979.

Together with these reforms Congress approved Reorganization Plan No. 2, also effective in January. The Plan divides the functions of the present U.S. Civil Service Commission between two new agencies — an Office of Personnel Management (OPM) and an independent Merit Systems Protection Board (MSPB). The Plan also establishes a new Federal Labor Relations Authority (FLRA) to oversee Federal labor management policies and to provide leadership in administering these policies. The headquarters of the three new agencies will be in Washington, D.C.

Under a separate authority, Reorganization Plan No. 1 of 1978, the Equal Employment Opportunity Commission will take over from the Civil Service Commission the leadership and enforcement of provisions of the Civil Rights Act affecting the federal government. This transfer of functions, also to occur in January, will include hearing and resolving certain discrimination complaints.

A description of the functions of the new agencies created by the Reorganization Plan follows. Next week major provisions of the Reform Act will appear in the *Rocket*.

Office of Personnel Management

The Office of Personnel Management will help the President carry out his responsibilities for management of the Federal work force. The Office will be headed by a director and deputy director appointed by the President and confirmed by the Senate.

OPM will take over many of the current responsibilities of the Civil Service Commission. These include central examining and employment operations, personnel investigations, personnel program evaluation, executive development, and training. OPM will also administer the retirement and insurance programs for Federal employees and will exercise management leadership in labor relations and affirmative action.

As the central personnel agency, OPM will develop policies governing civilian employment in Executive branch agencies and in certain agencies of the Legislative and Judicial branches, and will help agencies carry out these policies.

OPM may delegate authority for personnel management functions, including competitive examinations, to the heads of agencies in the Executive branch and the heads of other agencies employing persons in the competitive service, subject to its standards and oversight.

Delegations of authority to conduct competitive examinations are not permitted for positions whose requirements are common to agencies in the federal government, other than in exceptional cases involving economy and efficiency.

Merit Systems Protection Board

The Merit Systems Protection Board will be the independent agency to safeguard both the merit system and individual employees against abuses and unfair personnel actions. The MSPB will be headed by three board members, appointed on a bipartisan basis to 7-year nonrenewable terms. The Board will hear and decide employee appeals and order corrective and disciplinary actions against an employee or agency when appropriate. It will also oversee the merit system and report annually to Congress on how the system is functioning.

The Federal Employee Appeals Authority and Appeals Review Board will be abolished when MSPB is created.

Within the MSPB will be an independent Special Counsel, appointed by the President

for a 5-year term. The Special Counsel will have the power to investigate charges of prohibited personnel practices, including reprisals against whistleblowers; to ask MSPB to stop personnel actions in cases involving prohibited personnel practices; and to bring disciplinary charges before the MSPB against those who violate merit system law.

The Board, the Special Counsel, and Administrative Law Judges of the Board have the power to issue subpoenas to obtain testimony and evidence they need to decide appeals or conduct investigations.

In protecting whistleblowers against reprisal, the Special Counsel will investigate allegations of reprisal without revealing the identity of a complainant.

Federal Labor Relations Authority

The Federal Labor Relations Authority will oversee the creation of bargaining units, supervise elections, and deal with labor-management issues in Federal agencies. The FLRA will be headed by a chairman and two members, who will be appointed on a bipartisan basis to staggered 5-year terms. (This agency will replace the Federal Labor Relations Council.)

Within the FLRA, a General Counsel, appointed to a 5-year term, will investigate alleged unfair labor practices and prosecute them before the FLRA. Also within the FLRA and acting as a separate body, the Federal Service Impasses Panel will, as it does now, resolve negotiation impasses.

This week the *ROCKET* examines the federal service Reorganization Plan. Next week we'll take a long, hard and close look at provisions of the Civil Service Reform Act.

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TMDE

(From Front Page)

means that several different models of equipment may be chosen by different systems to perform the same function."

The result can be seen from figures from the study which show that of the approximately 8800 different models of TMDE listed in the Calibration Requirements Bulletin (TB 43-180), only 10 percent have a broader distribution than 20 each throughout the Army.

The wide variety of TMDE causes training and repair parts problems. The complexity of the TMDE needed to support increasingly complex weapon systems adds to these problems.

The present calibration system is divided into two levels — Level A for equipment that has to be calibrated very accurately and Level C for equipment that can perform its function without being calibrated so ac-

curately. Level A and Level C have traditionally been supported by two separate organizational structures, separate training and separate equipment. However, the study showed that most of the equipment and many of the functions were common to both levels.

Since duplication was found in the two levels of calibration, the study determined a need to combine the two levels into one. Each piece of equipment will still be calibrated according to the standard necessary for it to function properly and with required accuracy, but there will be only one organization doing the work.

The study also recommended combining repair and calibration of TMDE into the same area to save units from making trips to different sites for repair and calibration. Under the present systems, units often had to take their different items of equipment to many different locations for support.

The new TMDE policy suggests having several Calibration Repair Centers (CRC's) strategically located in an area. A unit will be supported just one of these centers and will be able to have all its TMDE repaired and calibrated in the same place. All

present TMDE support personnel will be controlled from these centers. Mobile TMDE units will also continue to service units, as they have in the past.

This consolidated TMDE support mission is very close to the Air Force concept for TMDE support and it is the concept the Navy is attempting to establish. Therefore its use by the Army will simplify the process for establishing inter-service support agreements for TMDE.

Finally, the study determined that giving total command control to one organization would better insure continuity in the Army TMDE support system, and would provide a proper relationship between the CONUS and OCONUS areas. Decisions would be made in the best interests of the Army as a whole and not merely of individual commands. Centralized control can eliminate duplication and make sure that personnel and equipment are used to their best effect.

DARCOM was a logical choice to command the new TMDE support mission since it already has the staff of AMCC, which is experienced in managing the Army Calibration System.

Redstone hosts pilot program for TMDE support

Once it became evident that the Army was going to adopt a new policy for supporting its test, measurement and diagnostic equipment (TMDE), Col. Charles R. Covell, head of the U.S. Army Metrology and Calibration Center (AMCC), decided to try bringing the Army's pilot program here.

The new TMDE support policy came out of a study previously done by the Army Materiel Development and Readiness Command (DARCOM), and one part of the policy put DARCOM in control of TMDE support. As the organization within DARCOM that had experience in TMDE support, AMCC would likely receive much responsibility for running the new project.

Thomas Ray, who helped to coordinate the pilot program, said this way: "We wanted to have the first program here because we knew there would be problems to overcome. We wanted to deal with those problems here first, before we tried to advise anyone else."

Part of the new plan was to combine the organizations that calibrate TMDE and those that repair TMDE into one TMDE support organization. This is the part of the program which AMCC put into practice in the pilot program.

Before the AMCC pilot program began in October 1977, there were TMDE calibration facilities under AMCC and TMDE repair facilities under Redstone Arsenal Support Activity (RASA). If someone took a TMDE item in for calibration and calibration workers discovered the item needed repairs first, it had to be sent to the separate repairs facility. The item might go back and forth between repair and calibration several times before being made operational again.

Now that TMDE items can be repaired and-or calibrated at the same place, the average turnaround time on an item brought in has decreased from 142 days to 96 days.

Covell said that expanding the career opportunities of calibrators and repairmen,

who are now able to do each others' jobs, is an added advantage of the new program.

"It is significant that (with the new program) we can do a better job and at the same time make the career field more exciting for those who work in it," he said.

Ray said that besides eliminating delays caused by shipping an item between calibration and repair, the new program also benefits the Army in other ways.

"It takes the administrative burden off the customer," Ray said. "Before he had to take the item from one place to another — now when he has an unserviceable item, he just turns it in once and gets it back when it's operational."

Last but not least, the consolidation of the two organizations makes it easier to keep a record of the spare parts used most often in repair. TMDE support workers can project the repair parts they will need most often, have those on hand, and thereby decrease the time it takes to get the TMDE functioning again.

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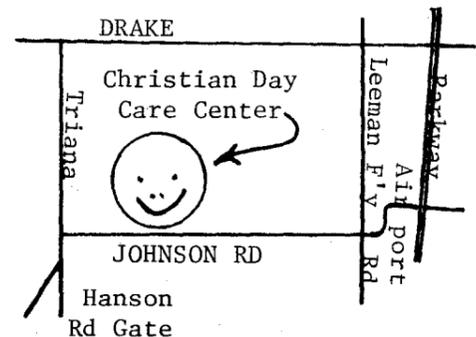
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Fish

(From Front Page)

has been aware of high DDT content in fish in the area for some years. U.S. Fish and Wildlife Service has not acted to ban fishing in affected streams within Wheeler National Wildlife Refuge, but those on Army property have been closed to fishing for years.

What health threat the fish may pose to those who eat them is not clear, according to the TVA study, but it states that "Consumption of fish with DDT is especially a potential problem for residents of the low-income community of Triana where bank fishing is a common practice." Triana is situated just off the arsenal's west boundary where Huntsville Spring Branch and Indian Creek flow into the Tennessee River.

Triana Mayor Clyde Foster said Friday that he is asking the U.S. Public Health Service to study the town's medical history and conduct tests on residents to determine if exposure to the DDT has any effect. The mayor said a town meeting was scheduled

Monday night to alert residents to the DDT problem and seek volunteers for the health effects study.

TVA cites studies in which DDT was fed to human subjects with no apparent ill effects but warns that the insecticide has caused tumors in laboratory tests with mice even though little is known of its long-term effects on humans. "If fish contain 250 ppm as is possible in Indian Creek . . . a 1.2 pound portion of fish per day would contain an equivalent dose that produced hepatic (liver) tumors in mice," the TVA study states.

The Environmental Protection Agency, which sets standards limiting human exposure to hazardous substances believes there is no "safe" level for cancer-causing agents and says the biological mechanisms of people and animals are similar enough for almost all compounds that have caused cancer in animals to have done the same in people and vice versa.

What to do about the DDT deposits in Huntsville Spring Branch is being explored in discussions between the Army, EPA, TVA and other concerned agencies.

The TVA study estimates that to dredge out the contaminated sediment and ship it to a hazardous waste landfill would cost \$51 million in transportation and burial charges

alone. Estimates for rerouting the stream bed around the area of contamination range from \$3 million to \$15 million depending on the approach taken. TVA says there are no known methods to seal the DDT in the bottom of the stream or to chemically fix or absorb it.

Based on discussions of the problem that have taken place to date, TVA, EPA, U.S. Fish and Wildlife Service, the Army and other concerned agencies share largely in the position that any action which could upset the valuable swamp ecology of the arsenal portion of Wheeler National Wildlife Refuge should be taken only after very careful examination of the effect of DDT on humans.

The DDT contamination at Redstone, along with mercury contamination in the Upper Holston River at the Tennessee-Virginia border, have been cited by TVA as two of the most serious water pollution problems in the Tennessee River drainage basin.

The mercury contamination results from waste left by an Olin Chemical Co. chlorine plant prior to 1972. Olin is the firm that manufactured DDT at Redstone for most of the 23 years the plant was in operation here. It was closed in 1971.

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HERE ARE SOME FACTS

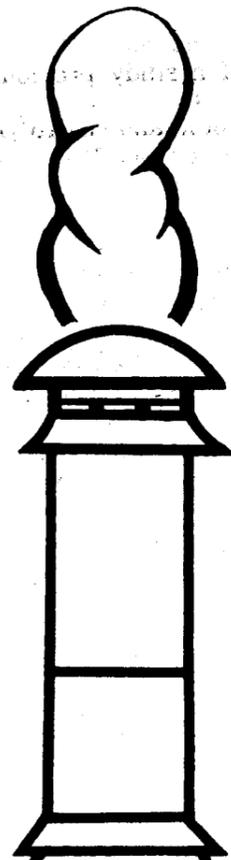
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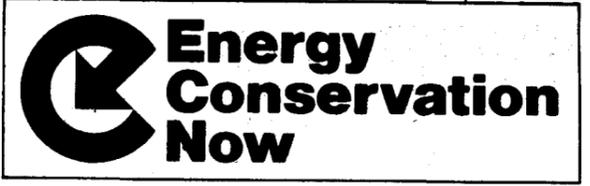
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German marksmen earn U.S. badges

A group of German Air Force NCOs received U.S. Army weapons qualification badges Thursday, recognizing their successful firing of M-16 rifles on the Ft. McClellan, Ala. range Oct. 31.

Twenty-five of the men earned Expert badges, two rated Sharpshooter, and three Marksman devices. All are assigned to the Missile and Munitions Center and School.

The Germans fired under the supervision of the 95th Service Company (Calibration) which had convoyed to Ft. McClellan for a four-day field exercise which included weapons qualification, land navigations and a leadership reaction course.

The Arsenal's American-German Partnership Program invited the Germans to join the 95th on the qualification range.

Sgt. Maj. Hans Schmollmann, one of the 25 soldiers who qualified as Expert, said he enjoyed the shooting very much. "It was the first time I fired the M-16. It is quite different from the German rifle. The M-16 has almost no recoil." The German weapon is chambered for the 7.62mm NATO cartridge as opposed to the M-16's 5.56mm round.

Schmollmann added, "We liked the pop-up targets, too. You had to watch very carefully, because you never knew at which range the target would appear."



U. S. badge, German uniform

After the badges were presented by the Commanding Officer of Headquarters Company, Special Troops, Maj. Homer T. Stokes, the men gathered in the Soldatenstube (enlisted club) to celebrate their accomplishments.

Game wardens arrest three

State and arsenal game wardens arrested three Huntsville hunters in a restricted area Sunday and charged them with several violations ranging from hunting without the required orange safety garments to hunting on a federal wildlife refuge.

The three — Harry Stressel, Larry O. Phillips and Bobby G. Steele — were arrested about 11:30 a.m. in Test Area 6, an area closed to hunting. According to reports filed by Military Police, the three men parked their vehicle inside TA6 and entered a portion of Wheeler Refuge adjoining the range.

There was a Military-Civilian gun hunt for deer Sunday. Portions of the refuge within the arsenal may be hunted during such special hunts, but hunters are required to stay in the part of the refuge adjoining the hunting area to which they are assigned. None of the three men were assigned to hunt where they were found. Two had been signed out for another hunting area, MPs said. The third was hunting without the required arsenal permit. The state warden confiscated their weapons and ammunition. Arsenal hunting privilege for all three were suspended immediately.

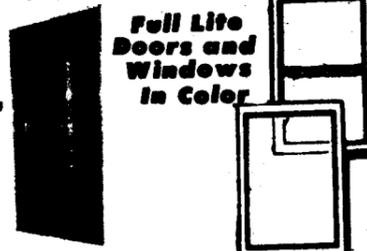
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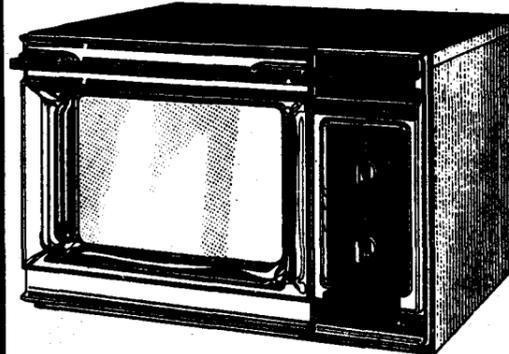
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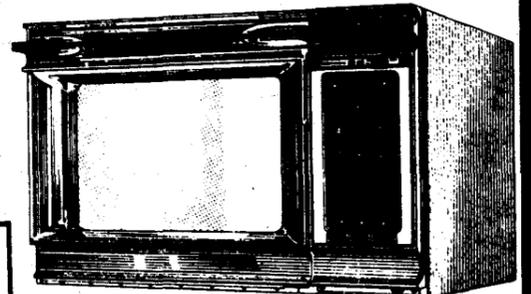
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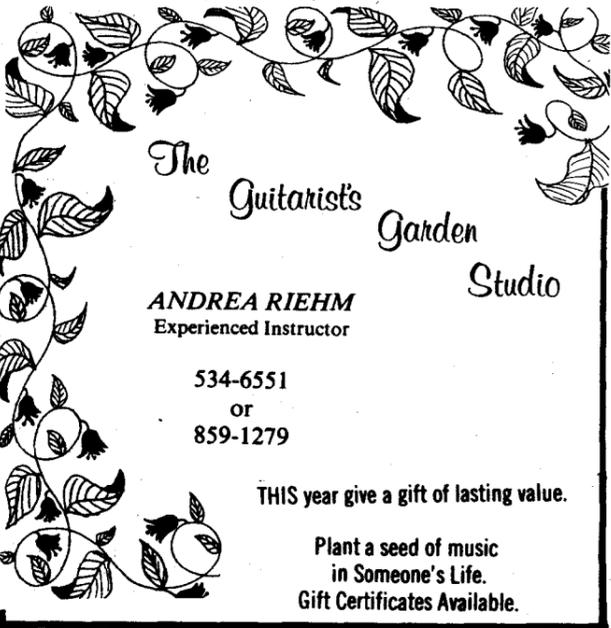
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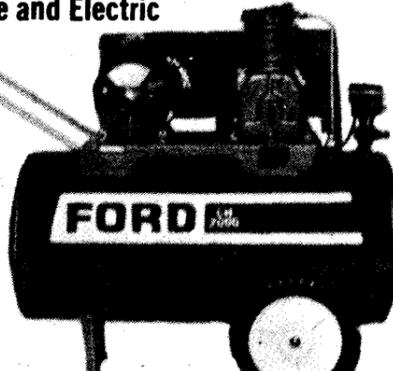
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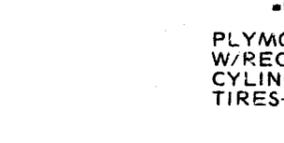
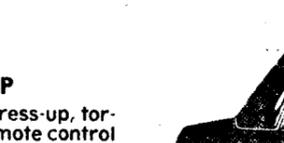


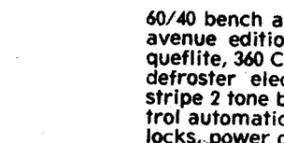
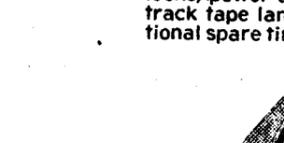
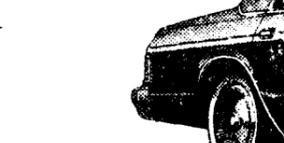
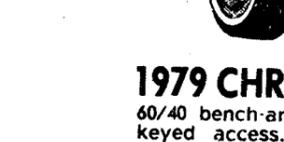
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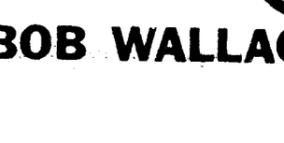


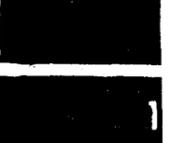


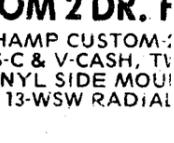
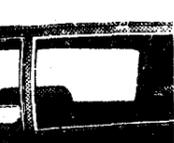






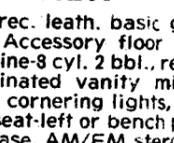




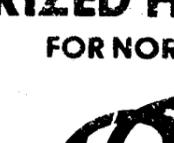



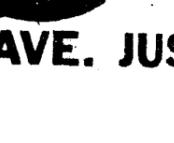







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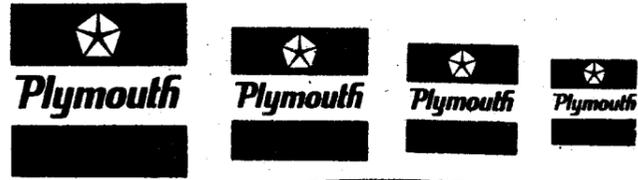
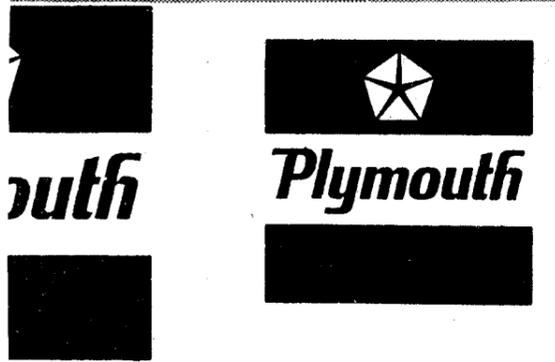
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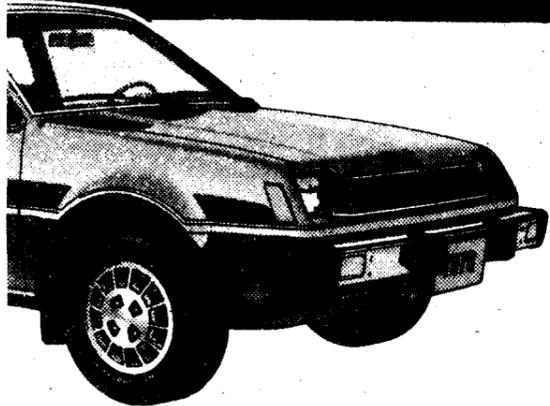
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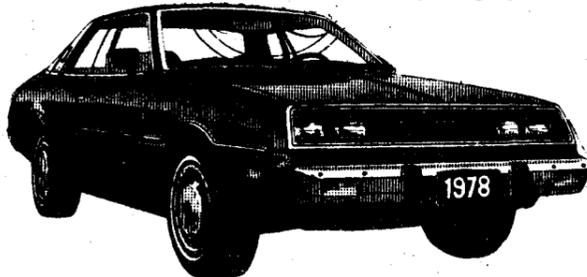


STOCK #V-2034

1979 PLYMOUTH VOLARE

60/40 bench arm rest-rec. vinyl basic group premier interior pack. premier exterior pack. Power ft. disc. brakes seat belts-color keyed accessory floor mats torqueflite 318 C.I.D. engine-8 cyl. tinted glass-hood stripe tape stripe body side accin? vinyl body side moulding radio-am/fm, single rear speaker, tilt steering wheel full vinyl roof-tan conentional spare tires ER78x14-WSW-glass rad.

WAS \$6812.30 NOW \$6350



1978 SAPPORO 2 DOOR COUPE

Bucket seats-cashmere cloth automatic, 4 cyl.2600cc, basic group radio am/fm, owner followup 195HRx14-wsw-radial

WAS \$7122.85 NOW \$6430



1979 VOLARE WAGON-8

Bkt. seat-cent cush. arm rest vinyl custom exterior pack torqueflite 318 C.I.D. engine - 8 cyl. tinted glass, air cond., cig. lighter, air defector, vinyl body side moulding, luggage rack, radio-am power steering wheel covers-deluxe.

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Announcements

Holiday services

Special Christmas and New Year's Eve Holiday Services will be held at the Chapels at Redstone Arsenal as follows:

PROTESTANT

- Dec. 17, 7:00 p.m. ... Sunday School Christmas at Bicentennial Chapel
 Dec. 20, 6:15 a.m. ... Candlelight Breakfast at Recreation Center
 Dec. 24, 7:00 p.m. ... Candlelight Service at Bicentennial Chapel
 Dec. 31, 9:00 p.m. ... Watch Night Service at Bicentennial Chapel

CATHOLIC

- Dec. 24, 4:00 p.m. ... Children's Christmas Eve Mass at Bicentennial Chapel
 Dec. 24, 12:00 p.m. ... Midnight Mass at Bicentennial Chapel
 Dec. 25, CHRISTMAS DAY, there will be only two masses:
 11:00 a.m. at Post Chapel
 12:15 p.m. at Bicentennial Chapel

Light displays approved on post

It's okay for family housing residents to have outdoor lighting displays during the holiday season, according to the Facilities Engineer Energy Office, but the lights should not be turned on before 6:00 p.m. nor allowed to burn past 10:00 p.m.

The Energy Office said residents may begin using lighted displays this weekend and continue through Jan. 3, and requested that families try to compensate for the increased use of electricity by cutting back on indoor lighting and use of household appliances.

Tree lighting

Maj. Gen. Louis Rachmeler, Redstone Arsenal Commander, will officially open the Christmas season at the annual tree lighting ceremony 4:00 p.m. Friday, Dec. 15, at the Bicentennial Chapel.

Accountants meet

The North Alabama Chapter of the Association of Government Accountants will meet 11:00 a.m. Wednesday, Dec. 20, at the Redstone Arsenal Officers' Club.

Harry James Green will be the guest speaker. Green is Chief of the Nuclear Generation Branch and Division of Power Production with the Tennessee Valley Authority in Chattanooga, Tenn.

For reservations, call Melanie Holloway at 453-1547.

SAME meeting slated next month

The Society of America Military Engineers (SAME) will not meet in December. The next meeting will be Jan. 18, 1979. A speaker from the Engineer Topographic Laboratory will discuss "Advances in Technology of Computer Mapping."

The Society wishes to acknowledge those who have participated during the last year. It also encourages all engineers and other interested in Military Engineer activities to join SAME. For information about SAME, contact Terrell Prewitt at 895-5750.

Control Society/IEEE hold joint meeting

The Huntsville chapters of the Control Society and of IEEE will hold a joint luncheon meeting beginning 11:00 a.m. Thursday, Dec. 14, at the Redstone Arsenal NCO Club.

Mike Neighbors, a Senior System Analyst with Science Application Incorporated, will present an overview of Computer Graphic Systems with emphasis on major sub-systems and applications. A comparison of capabilities offered by Random Scan Display Technology will preface the overview.

For information and reservations call: Dave Green, 895-6463; Linda Hooper, 895-6316; or Willie Albanes, 837-7200.

Electro-Optical holds luncheon

The Huntsville Electro-Optical Section and Working Group will meet noon Thursday, Dec. 14, in the Hawk Room of the Redstone Arsenal Officers Club.

Dr. John D. Stettler of MIRADCOM's Technology Lab, Research Directorate, will speak on "The Army Missile Optical Range."

Lunch is Dutch Treat. Members and guests should pick up their lunch from the buffet line downstairs before going to the Hawk Room. They should be seated when the meeting begins, promptly at noon.

Open season ends

The open season for enrolling in or changing health insurance plans will close Jan. 5, 1979. Any changes should be received in the Personnel Office by the close of business that date.

Christmas party

Just a reminder: Friday evening is the MMCS Christmas Party, to be held at the Redstone Officers' Club.

Charity concert

A charity concert featuring the rock groups Hatterfox and The Toys will be held in the Rec Center Auditorium Sunday, Dec. 17, from 6:00 p.m. to 9:00 p.m.

The public is invited. No admission will be charged, but donations will be appreciated. Proceeds will go to the Redstone Arsenal chaplains drive to collect food for the needy.

The public address system was provided by Sound by Metric.

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Rec Center offers trip

A trip to Nashville highlights offerings at the Rec Center this week. Scheduled activities through Dec. 19 include a Movie tonight at 7:00, Bingo tomorrow night at 7:30 and Pool on Friday at 7:30 p.m. The Nashville trip departs at 8:00 a.m. on Saturday. Also slated are Coffee & Snacks on Sunday night at 7:00, Rummy Night on Monday at 7:00 and a Ping Pong Tourney at 7:00 next Tuesday night.

Lions Club meeting

The Von Braun Lions Club will meet 6:30 p.m. Thursday, Dec. 14, at the Britling Cafeteria, Dunning's Mall.

PBP representatives

Two representatives of the Postmasters Health Benefit Plan will be at Redstone Arsenal in Rm A-115, Bldg. 5250 from 10:00 a.m. to 2:00 p.m., Dec 15, to inform employees about the plan and to answer questions.

Job openings

An urgent need exists to fill the following vacancies at Fort Leavenworth, Ks., according to David D. Bolinger, Chief of the Civilian Personnel Office's Recruitment and Placement Branch there. The closing date for applications is Dec. 20, 1978.

MECHANICAL ENGINEER, GS-830-11, 2 Vacancies

MECHANICAL ENGINEER INTERN, GS-830-05-07 — 1 Vacancy

CONTRACT SPECIALIST, GS-1102-11 — 1 Vacancy

(Knowledge of ADP equipment required)
 TREE MAINTENANCE WORKER, WG-5042-06 — 1 Vacancy
 (\$7.16 per hour)

Applicants must meet appropriate qualification standards in Civil Service Commission Handbook X-118 or X-118C. Interested and available applicants should forward completed SF-171 to CPO, Recruitment and Placement, Fort Leavenworth, Kansas 66027.

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Emergency cash is limited while on leave

WASHINGTON (ARNEWS) — How do you get emergency cash while on leave or a PCS move during the holidays?

Officials at the Army Finance Center, Ft. Benjamin Harrison, Ind., say there are strict limits that apply to soldiers collecting money while on leave or PCS. And they advise soldiers to make careful financial plans before they take leave or PCS.

Soldiers on leave, officials explained, can collect casual pay from any DOD Finance and Accounting Office, but only if they have an approved DA Form 2467 (Record of Casual Pay).

The forms can be requested through a soldier's unit and must be approved by an official.

The amount of money a soldier can collect for casual pay is limited to normal monthly net pay and only the amount of accrued pay and allowances. If a soldier receives casual pay on Dec. 15, for example, it amounts to

only 15 days pay, minus allotments, taxes, etc.

Local installations set policies on approving casual pay, officials say. And, although not a uniform policy, the rule generally followed is that soldiers with a "Check to Bank" option cannot receive casual pay. So finance officials advise soldiers with a "Check to Bank" option to carry check-books with them while on leave.

A soldier can receive payment from an FAO located away from the parent installation only if the soldier is on leave or PCS status and in possession of a DA Form 31 or orders.

Soldiers on PCS status, who may not have a casual pay form, can usually draw emergency pay if they have their finance records with them. By taking their records to any DOD FAO, officials say, their pay records can be verified at Ft. Harrison if the local FAO calls (AUTOVON) 699-1618 or

(Commercial) (317) 542-1618. The local FAO may also want to call this number to verify approval for a DA Form 2467, officials remarked.

Soldiers on PCS, like those drawing casual pay, are limited to payment based on accrued pay and allowances and minus allotments and deductions, officials add.

If you want to avoid the sometimes bothersome casual pay route, you can also draw a partial pay before going on leave (or advance pay if in a PCS). Partial pays are authorized locally and can be made for the entire month, if you will be away past payday. Like other payments, allotments and other deductions will be drawn from normal monthly pay and allowances.

If soldiers on leave find themselves without money or emergency pay eligibility, they can still receive a transportation request to cover the cost of returning to their units. But, since these are paid for by the government, they must later be collected from the soldiers' pay. And, officials point out, transportation requests sometimes cost more than commercial travel discount rates available to soldiers on leave.

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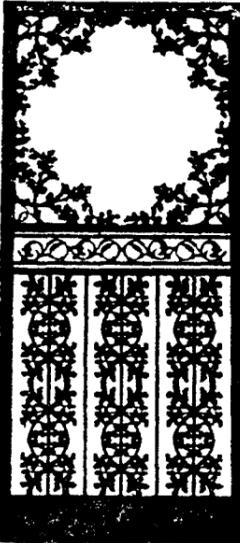
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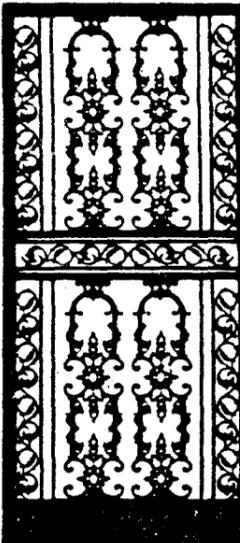
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Civilian Welfare basketball

MMCS remains unbeaten

The unbeaten ranks dropped from three to one in Civilian Welfare basketball play last week with MMCS applying the stopper to two previously spotless records.

On Tuesday night the Missile School five put on an impressive show of scoring strength in blasting past RD&E, 86-64, as the Comptrollers were rolling to a 65-49 win over Maintenance. The Corps of Engineers won for the first time in easing past Product Assurance, 44-32.

The Comptrollers tasted defeat on Thursday when MMCS took a 59-57 decision on a last second goal by Abdullah Muhammad. RD&E went down again, this time to PAD, 59-42, and the Engineers evened their slate at 2-2 by downing Maintenance, 41-25.

In Thursday's battle of unbeaten the Comptrollers won the first half, 33-31, but MMCS captured the verdict with a strong defensive effort following the intermission.

The School five grabbed the lead a minute into the second half and stretched the advantage to 49-41 with just under three minutes to go. John Nichols sparked the Comptrollers to a furious comeback that knotted the count at 57-57 with 16 seconds left to play. That was just enough for Mike Mitchell to bring the ball up the court and get it into Muhammad in the right corner for the shot that made MMCS the winner.

James Love topped the individual scoring with 20 points and Muhammad added 16 more for the winners. Nichols topped the Comptrollers with 16 and Jim Bunnell hit for 12.

MMCS had considerably less trouble putting an end to the RD&E streak as Muhammad, Love and Mason Hammons each tallied 17 points. Steve Smith topped the researchers with 16 and Jim Vann ended with 15.

The Comptrollers prepped for their duel with MMCS by rolling over Maintenance as Mose Hall collected 16 points and Bunnell added 13 more. Robert Jones hit a game high 18 for Maintenance.

Calvin Walker sparked Product Assurance to even split for the week following a pair of losses during the opening week.

Walked tossed in 21 points as PAD added to the RD&E miseries on Thursday but his 16 point production was not enough to prevent a loss to the Engineers on Tuesday. John Vann was the RD&E leader with 14 points while Jerry Mullinax accounted for 13 C of E points.

The Engineers made it double-win week at the expense of Maintenance as Paul Lahoud tossed in 14 points and Mullinax hit for another 13. Robert Jones scored 15 for Maintenance.



FAMILY EVENT — For two years Capt. Richard Gates has jogged with his sons and for the past six months the group has been training, mainly on Rideout Rd., for the Joe Steele Rocket City Marathon being run in Huntsville on Dec. 16. Left to right are Eric, age 9, Gates, and Jeff, age 8. The Gates trio is one of 10 Redstone Arsenal resident entries and 161 Huntsville resident entries. The marathon is attracting more than 1,000 entries from throughout the United States. The route, run through the city, does a U-turn at Gate 9 at about the 22-mile point.



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Bowling results

AMC LEAGUE

Standings	Pts
Bombers	38
T-Birds	32
Bob Tabb Cadillacs	29
Rolling Rocks	27
Spares	26
Cactus Jack Lounge	24
Hughes Aircraft	17
Outlaws	15

Last Wednesday

Bombers - 4 - Spares - 0
 Cactus Jack - 4 - T-Birds - 0
 R. Rocks - 3 - Hughes - 1
 Outlaws - 3 - Cadillacs - 1

Honor Roll

Gene Ashley passed the 600 mark by a pin after putting together games of 201, 206 and 194, as the Bombers extended their first place margin to six points.

Other Individual Stars

Joe Bodnar, 580 (215); Al Meisner, 557; Chuck Turner, 540; Jack Mann, 537; Dave Elliott, 534.

WEDNESDAY OFFICER BOWLING

Standings	Pts
Swingers	76
Nomads	72
Miradcom Maulers	65
Exasperators	59
Lucky Strikes	53
Red Tabbers	52
Strikeouts	51
Blackjacks	48
Meddac	47
Bushwackers	37

Results

Exasperators 8, Bushwackers 0
 Miradcom Maulers 6, Swingers 2
 Strikeouts 6, Red Tabbers 2
 Meddac 4, Blackjacks 4
 Lucky Strikes 4, Nomads 4

High Rollers

Townley 604 (212, 201), Bofenkamp 602 (220, 218), Witczak 568, Ivy 567 (226), Beall 665 (207, 200), Jordan 563 (201), Fuller 531, Wells 529, Baasen 526, Hopper 524, Messenger 523, C. Smith 522 (213), Ogozalek 516, Keller 515 (217), Weaver 514, Meyers 513 (209), Washburn 510 (213), Stewart 509, Bergmann 506, Hertzog 505 (200), Pencola 504, Morison 501.

FRIDAY NIGHT MIXED

Standings	Pts
Pin Pushers	39
Spare Parts	36
Strikes-n-Spares	35
Who Cares??	34
Wrecking Crew	33
Hardy Yo-Yos	31
The Spoilers	29½
High Rollers	28
Magic Four	26
Free-n-Easy	24

Last Week's Results

Free-n-Easy 3, Eight Balls 1
 The Vanners 3, Stoppers 1
 Wrecking Crew 3, High Rollers 1
 Pin Pushers 0, Strikes-n-Spares 4
 Spare Parts 3, All Stars 1
 The Spoilers 3, Magic Four 1
 No Name Gang 2, Feast-n-Famine 2
 Hardy Yo-Yos 0, Who Cares?? 4

TUESDAY NIGHT BOWLING

Standings	Pts
Retired I	39
Mean Machine	36
Squires	35
Lucky Seven	35
Mad Medics	34.5
Cactus Jacks	33
Marines	33
Hal's Hookers	33
Half & Half	28
Get it Kwik 6	26.5
Home Team	26
Pinbusters	25
Ole Blasters	19
Tails End	17
Hot to Trot	16
Castle Keepers	12

Results

Retired I 4, Hot to Trot 0
 Get it Kwik 6 4, Ole Blasters 0
 Half & Half 4, Lucky Seven 0
 Marines 4, Hal's Hookers 0
 Pinbusters 3, Tails End 1
 Home Team 3, Mean Machine 1
 Cactus Jacks 3, Castle Keepers 1

High Rollers

Dozier 623 (223, 211), Robinson 600 (208, 203), C. Smith 588 (231), Hodge 571 (204), Brooks 567 (234), E. Williams 561 (222, 204), Martin 563, Valentin 547, Stram 534 (204), N. Hill 532, D. Smith 531 (218), Wilson 531 (201), Coddington 530, Clancy 525 (212), Maloney 525, Rodeen 525, C. Williams 523, Miller 522, Evans 516, Thornberry 515, G. Wright 515, Turner 509, M. McKinney 507, Vanderburg 506, Hoover 506 (225), Pollock 503, Schleimer 503.

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High Game

Men	Women
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J. Schuppe - 252	C. Dinkel - 244
B. Payne - 246	D. Wright - 243

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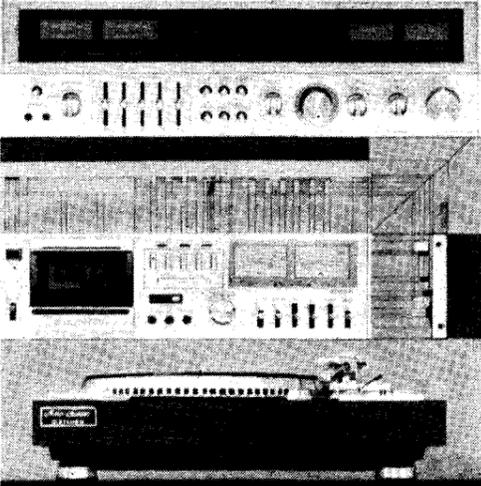
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Obituaries

William C. Watson

A funeral service for William C. Watson, former director of what was then the Ground Support Equipment Laboratory, Research and Engineering Directorate, was held Saturday at Laughlin Service Funeral Home.

Burial followed in Valhalla Memory Gardens.

Watson, who retired from government service at Redstone in 1970, died last Wednesday at a Huntsville hospital. He was 64.

Watson, who came to Redstone in 1951, stood in the forefront of Army missile and rocket development for nearly two decades and was one of the pioneers in adapting missiles and rockets to helicopters. He played a key role in the early 1950s in the development of rockets, launchers and aircraft fire control hardware, thus giving the Army mobility and firepower it never had before.

His civil service career, spanning 33 years, was spent in research and development, beginning at Rock Island, Ill., in 1937, through his subsequent transfer to Redstone in 1951, and until his retirement in July 1970.



GRANDDADDY OF LAUNCHERS — The late William Watson is shown with the H-34 helicopter and one of the early launch systems which proved the feasibility of arming Army aircraft.

During World War II, he served with the 347th Infantry, 87th Division and was awarded the Bronze Star, Combat Infantry Badge, Unit Citation, European, African, Middle East Campaign Medal with three battle stars, the Victory Medal and the American Theater of Operations Medal.

Survivors include his wife, Mrs. Doris

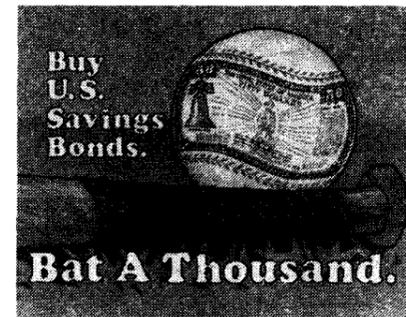
Watson; two sons, Cary J. Watson, who is employed in MIRCOM's Chaparral-FAAR Project Office; and Dr. Michael D. Watson of West Palm Beach, Fla., two brothers, Harvey Watson of Centralia, Ill., and Donald Watson of Manchester, Tenn.; and his stepmother, Mrs. Dorothy Watson of Centralia, Ill.

Rites scheduled for Mrs. Aldrup

Funeral services for Mrs. Evelyn D. Aldrup will be held at 1:00 p.m. today in the chapel at the Laughlin Funeral Home. Burial will be in Maple Hill Cemetery.

Mrs. Aldrup, wife of LTC William Aldrup, formerly assigned to MMCS and now serving in Saudi Arabia, suffered fatal injuries Saturday when thrown from her horse during a fox hunt.

She is survived by her husband, three sons: Stephen, David and Kenneth, all at home; her parents, two sisters and one brother.



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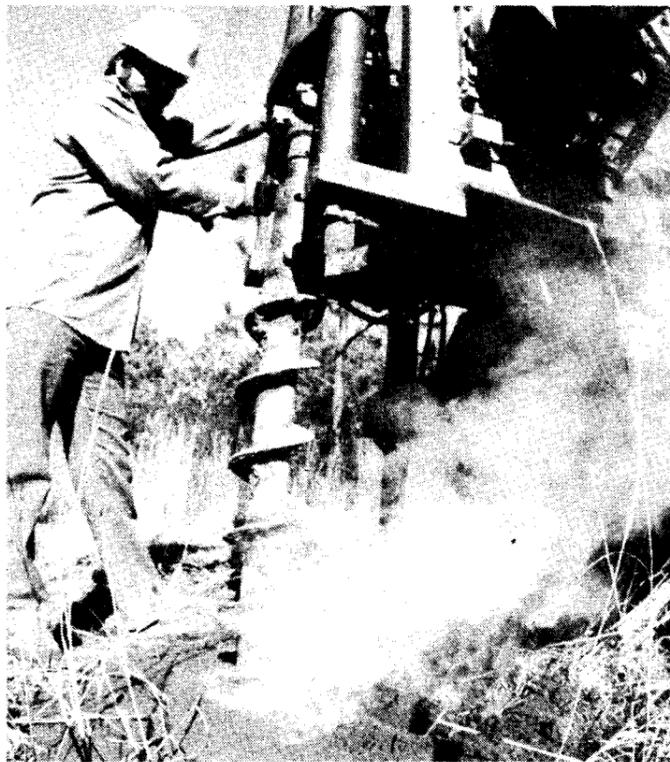
Wells drilled to detect DDT

Wells for monitoring groundwater are being drilled here as part of the effort to identify pollution from DDT wastes on the arsenal.

The wells, approximately 20 in number, are being sunk at sites where DDT is buried. Water samples from the wells will be analyzed to detect if any of the buried waste is migrating in groundwater.

Monitoring well sites include the area of the DDT manufacturing plant that closed down in 1970 and several landfills where production waste was dumped.

Also, core drillings are being made to determine amounts and distribution of DDT in landfills, as well as to obtain soil samples that are analyzed for composition and other geologic characteristics. A recent project involved getting core samples of a landfill area where a burial pit is being constructed for contaminated sediment that will be excavated from drainage ditches at the old manufacturing site. The samples were examined to make certain that soil in the landfill will provide a secure burial area that DDT cannot escape from.



Drilling a test well

SHOP THE ADS

MIRCOM workers receive awards for special service

William A. Fondren, Kuwait-Jordan Project Office, and James S. Phillips, TOW-Dragon Project Office, were recent recipients of Meritorious Civilian Service Awards presented by Maj. Gen. Louis Rachmeler, MIRCOM Commander.

Fondren, as Deputy Project Manager, was cited for his expertise and thoroughness that contributed to providing Kuwait and Jordan with complete air defense systems at minimum cost and in minimum time.

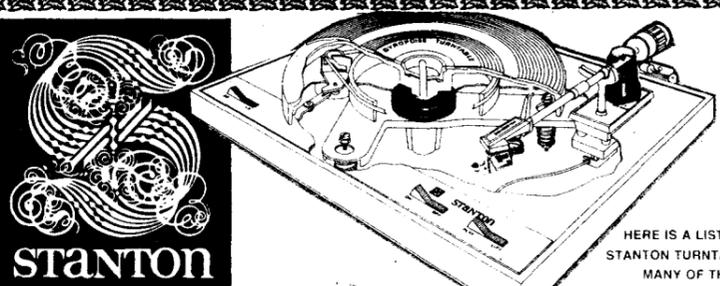
As Chief of the Systems Readiness Division, Phillips was recognized for his managerial ability and leadership that significantly contributed to TOW-Dragon meeting all deployments on schedule with quality hardware.

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Regular AC Plugs	79¢
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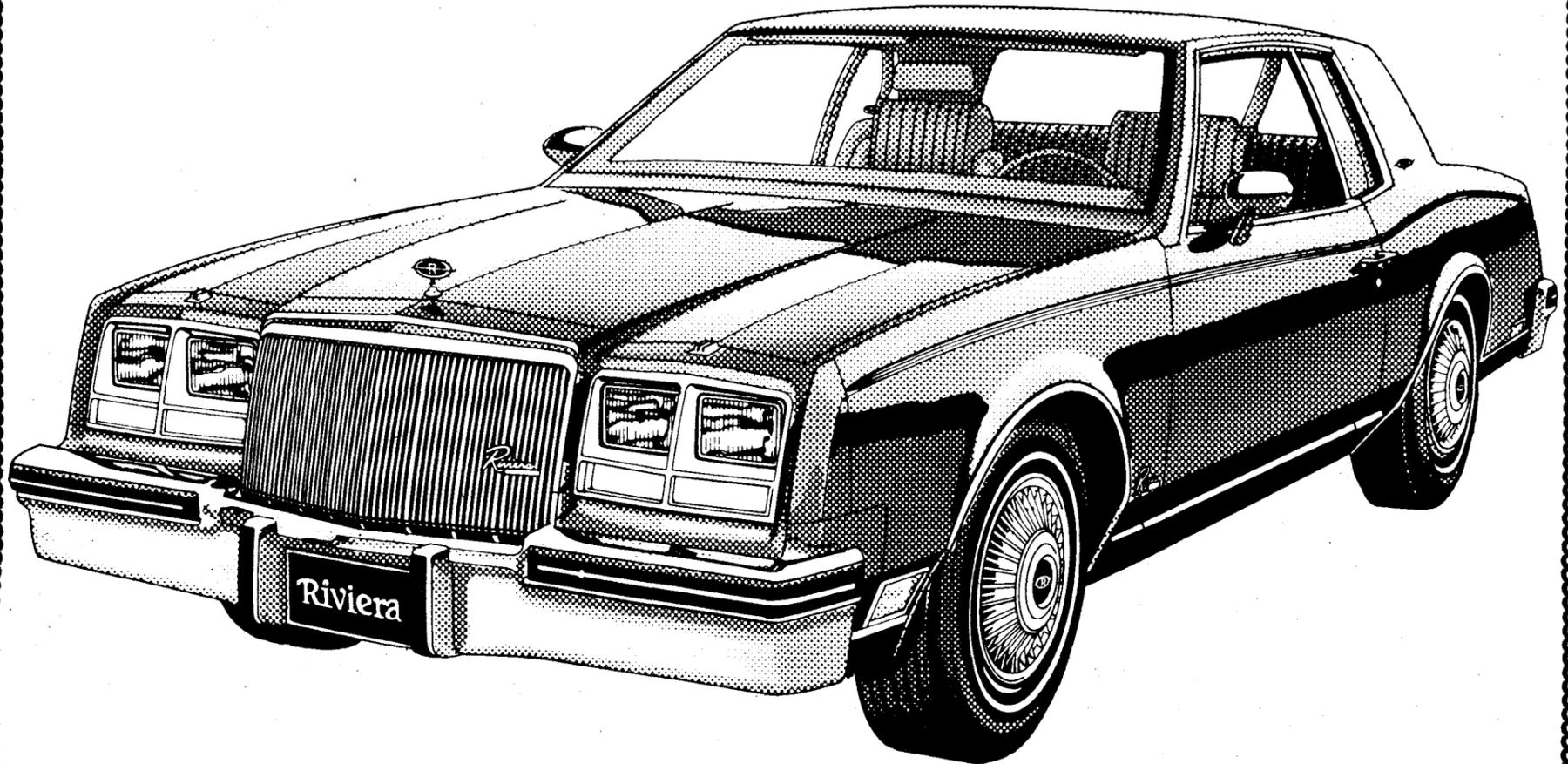
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