USEC

MARTIN MARIETTA

Uranium Enrichment News

Volume 1 | MARCH 1994 | Number 8

Failed compressor disassembled at Paducah

As part of the ongoing investigation into reasons behind a serious compressor failure in Paducah's C-337 Building in December, the compressor involved has been removed from the cascade and completely disassembled.

The failure resulted in five compressor deblades and forced shutdown of three other cells. Following the event, and deactivation of the Emergency Operations Cadre, a recovery team was established to safely coordinate and plan the work necessary to return to normal operation. Mike Buckner, Deputy Division Manager, Cascade Operations, was named Recovery Manager. An investigative team, co-chaired by Jim Thomas and James Sohl, was established to investigate the causes and corrective actions.

Buckner said the Recovery Team's initial focus was to isolate any UF6 outleakage and stabilize the cascade. Within days the cascade flow was returned to normal and compressor replacements had begun. The Investigative Team elected to disassemble the compressor in order to understand why it failed.

Buckner said much planning went into removing the failed compressor from the cascade to ensure no personnel exposure to radioactive material or spread of contamination. Following the planning and procedure preparation, the work was completed without incident. Buckner said close work and cooperation with several groups were responsible for the successful removal and handoff to maintenance staff.

While Paducah's Compressor Shop once routinely disassembled and rebuilt compressors, it has been five years since the last complete disassembly. During that time, several stand-by compressors were used as replacements.

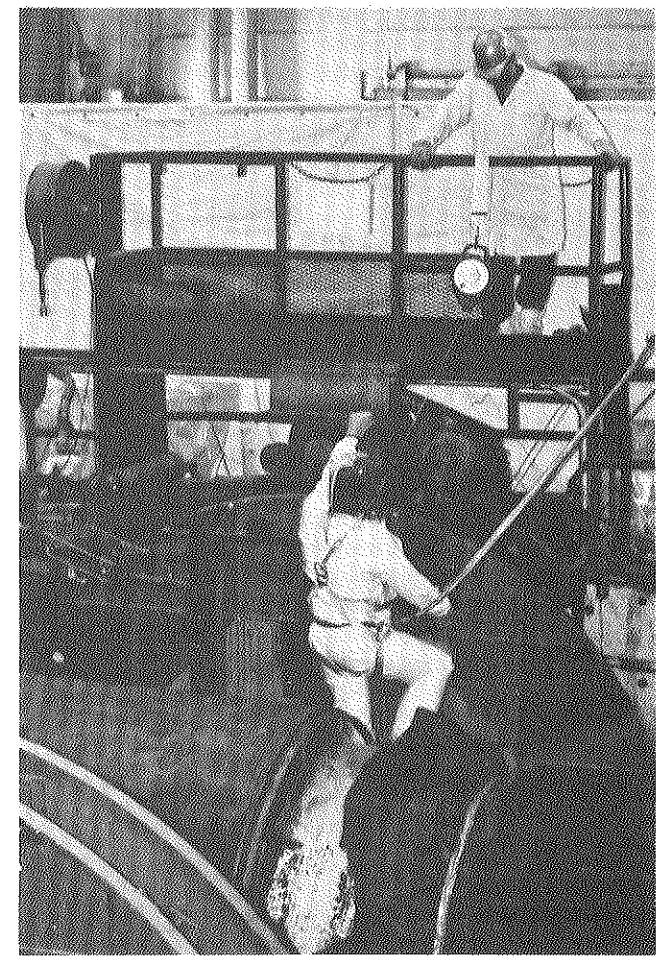
After their part in this investigation is complete, the Compressor Shop is expected to eventually return to rebuilding compressors for use in the Cascade. Though enthusiastic about returning to their original mission and contributing to plant reliability, people involved in compressor and motor repairs are also aware of the responsibility that goes with such critical work.

Acknowledging that there's no room for error in a project like this compressor disassembly, Gary Pierce, Manager of the Mechanical and Process Shops Department, said a great deal of planning and preparation went on before any work began.

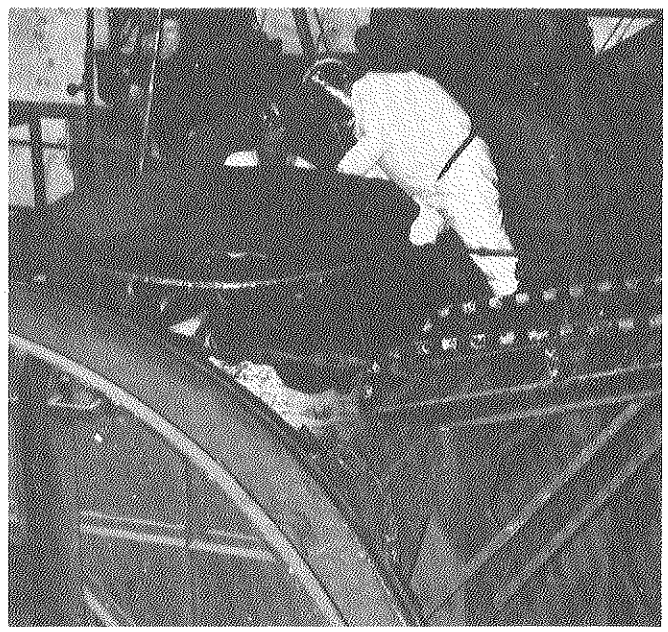
When Cascade Operations Maintenance staff finished detaching the damaged compressor from the process piping, it was lifted out of its spot in the cell on the top floor of C-337. It was then wrapped up, moved outside, and loaded on a wagon for a trip to the C-720 Compressor Shop. Once there, the compressor was situated in the Compressor Shop in the southeast end of C-720, and the disassembly process began.

Several groups were involved in making sure the work was conducted safely and efficiently, Pierce said. "The keys were the planning involved and the teamwork among the different organizations. Maintenance Engineering, Compressor Shop Personnel, Industrial Hygiene, and Health Physics met

(Continued on page 2)



A worker in Paducah's Compressor Shop wears a safety harness and line to prevent an accidental fall while he descends onto the compressor disassembly fixture. Working safely is a priority in this and other Maintenance Shops.



Maintenance employees wore the required anti-contamination clothing and "bubble" hoods that provided a continuous supply of fresh air while they disassembled the compressor. Here, bolts are loosened as part of the disassembly process.

Tails facility fills the gap

Normally, if mechanical problems develop in one of the two loops at Portsmouth's Low Assay Withdrawal (LAW) station at the X-333 Process Building, product is withdrawn from the ERP (Extended Range Product) station at the X-326 Process Building. However, when one of the LAW station's two loops developed problems during the spring of 1993, the ERP station was undergoing modifications as part of the Highly Enriched Uranium (HEU) suspension project. Consequently, the Tails Withdrawal Facility at the X-330 Process Building was called upon to pick up the slack.

The Tails Withdrawal Facility had been required to do this in the past, but only on a short-term basis. However, this time was different--the facility had to withdraw product for approximately nine months, during a time when a production level record was set for the

(Continued on page 2)

Senate confirms board

The Board Nominees for the United States Enrichment Corporation's Board of Directors were confirmed by the full U.S. Senate on Thursday, February 24. The Senate used the unanimous consent calendar when voting for the confirmation. The board members are Greta J. Dicus, Director, Radiation Control, Arkansas Department of Health; Margaret H. Greene, President-Kentucky Operations, South Central Bell Telephone Company; Kneeland Youngblood, M.D., Youngblood Enterprises; William J. Rainer; and Frank G. Zarb, Vice Chairman and Group Chief Executive, Travelers Inc. They are scheduled to be sworn in later this month. More information on the new board members will appear in April's issue of Uranium Enrichment News.

What's happening to people in UE?

FLOOD OPERATIONS AWARDS—Several Paducah Plant employees were recognized recently for their service with the United States Coast Guard Reserves during the floods of 1993. We appreciate their diligent service on behalf of the flood victims and congratulate them all.

The Coast Guard Achievement Medal was presented to PSC Jerry Gray of Management Systems and Compliance, and MK1 Wesley Smith of Chemical, Utilities and Power.

The Commandant's Letter of Commendation was received by PS1 Trent Griffin of General Plant Support, DC1 John Massey of Cascade Operations and MK3 John Bobo of Management Systems and Compliance.

The Coast Guard Meritorious Unit Commendation Award was presented to PSC Ken Hollowell of Chemical, Utilities and Power, PS3 Joe Beverly of Safeguards, Security and Emergency Services, PS3 Robert Fulton of Management Systems and Compliance, PSC Gray, PS1 Griffin, PS1 Holland, DC1 Massey, MK1 Smith, and MK3 Bobo.

The Coast Guard Humanitarian Service Medal was awarded to PSC Gray, PSC Hollowell, PS1 Griffin, PS1 Holland, DC1 Massey, PS3 Beverly, MK3 Bobo and PS3 Fulton.

OSHA TRAINING COMPLETED—Seventeen members of MMUS attended training for "Process Safety Management of Highly Hazardous Chemicals-How to Implement 29 CFR 1910.119." The three-day, eight-hour training sessions were conducted by JBF Associates Inc., of Knoxville, Tenn. Betty Olson of Portsmouth's EOSH Training Department provided assistance in the planning and coordination of the training.

The following Portsmouth personnel received certificates: Ken Lauderback (Cascade Division Services), Dave Williams ('000' Cascade), Leonard Sendek (Safety and Health), Marty Redden (Emergency Management), Bruce Wilkinson (HEU Cascade), Harris Cooke (Utilities Operations), Sam Maroudis (Industrial Hygiene), Salah Darwish and Paula Ridgeway (Mechanical Engineering), Phil Hawkins (Project Management), Jason Bolling and Anthony Coyan (Uranium Feed/Fluorine Generation), Rick Wildman (Industrial Safety), Don Stone (Safety Analysis) and Tom Hester (Facility and Transportation Safety). Charles Dummeier of Paducah's Plant Engineering Department also received a certificate.

Tails facility fills in the gap

(Continued from page 1)

number of parent and daughter cylinders processed through the X-344 Toll Enrichment Facility autoclaves. The Tails facility withdraws tails material into 14-ton cylinders while product is withdrawn in 10-ton parent cylinders and then transferred to 2 1/2-ton daughter cylinders at the X-344 which are shipped to the customer.

The Tails Withdrawal Facility, located on the northeast corner of the X-330, is normally used to withdraw the totally depleted gas stream--the bottom of the production stream--from the cascade. When enriched product is withdrawn from Tails, the same safety and criticality concerns exist as at the LAW and ERP stations, and this made for a long, hot summer. Accustomed to wearing only coveralls and a face mask, Tails personnel had to adjust to suiting up in full anti-contamination clothing for 45 minutes at a time to change cylinders when withdrawing enriched product. This was difficult in light of an average 110-degree ambient temperature in the withdrawal room.

Withdrawing product at the Tails facility gave employees 150 to 200 additional cylinders to hook up, fill, and pull off during the year. "We wouldn't have met customer orders otherwise," said Dan Wilburn, Department Manager, X-330. Valving had to be reconfigured to fulfill this mission, and this left the facility without a spare loop to use in case of mechanical or other production problems. "We had to stay on top of things so the extra loop would not be needed," said Randy Cooper, Acting Facility Coordinator in the X-330. A few times during the year, the LAW station was completely out of service, doubling the number of cylinders withdrawn at the Tails facility.

This team effort took 90 percent of the building's operators, who did all the work with overtime as no additional personnel were hired to accomplish this task. As a reward for their efforts, personnel in the Tails facility received a Cascade Operations Improvement Award from the division in January which added money to their budget to use for items to improve their work area--and they get to decide what to buy.

Those X-330 personnel who were most involved in the side withdrawal included Operators Frosty Cox, Wendell Crabtree, Larry Foreman, J.J. Groves, Tom Samples, Dee Wallette, Woody Woodruff, Donna Montler, Clifford Smith and Supervisors Nick Moore, Jack Snyder, Dick Kielmar, Howard Potts, Wendell Hahn, Cherry Cook and Mike Walters.

Compressor disassembly

(Continued from page 1)

as a group to prepare a step-by-step plan for how all this work would happen."

He said they also developed a Potential Problem Analysis, which looked at the things that could go wrong, and suggested responses. "Nothing came up that we didn't anticipate," Pierce said.

Throughout the process, there was close communication with the maintenance people who would actually do the work, Pierce said. "Getting everybody together and talking things through helps, particularly when you take into account that many of the support people have not been part of this kind of work before."

Because of UF6 contamination on the surfaces of the compressor, the area around it was deemed a "high contamination zone." This means employees working on the equipment were required to use respirators and two pairs of anti-contamination coveralls over their regular coveralls. Pierce said two large air compressors loaned by Portsmouth maintenance were a great help because they enabled workers to use "bubble" hoods with a continuous air supply rather than the cumbersome self-contained units with individual air tanks. He said people are more comfortable this way and don't need frequent breaks to replace their air tanks.

Maintenance Valve and Pump Shop personnel provided the bulk of the manpower for the project, with the Fabrication and Machine Shops lending support as needed. Bud Waltmon provided Technical Support.

Pierce noted that Occupational Safety and Health Administration (OSHA) representatives were onsite during much of the project, and no associated OSHA violations were recorded, a tribute to the attention to detail by everyone involved in the work.

Those above were responsible for the success of the Tails Withdrawal Facility at Portsmouth during a nine-month period when it was called upon to withdraw product from the plant's cascade. They are (front) Tom Samples, Randy Cooper, Nick Moore, (back) Dee Wallette, Woody Woodruff, Wendell Crabtree, Dick Kielmar and Mike Walters.

CHILDREN'S EASTER EGG HUNT

Saturday
April 2, 1994

Pike County Vocational School
Starts at Noon

3 Hunt Areas
(Children 1 - 12)

Easter Bunny,
Mickey Mouse &
Smokey the Bear
Real Fire Truck

Free Refreshments/Treats
Professional Entertainment - Magician & Juggler

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Uranium Enrichment News

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Published monthly for Utility Services employees such as Roger Wiggins of the Facility Services Department in the General Plant Support Division at Paducah.

Smith flying high with model planes

Jerry Smith, a planner/estimator in Paducah's Maintenance Services Department, recently won his third national championship in the Fun Fly Nationals, a competition for radio-controlled model airplanes in Raleigh, North Carolina.

Sponsored by the National Competition Fun Fly Association, the Fun Fly Nationals pit the best fliers and machines in the country against one another. The event is divided into categories, with the most difficult being the "Unlimited Expert," the one Smith competes in. To win, a competitor must be able to do a set group of maneuvers in the shortest period of time.

The planes Smith flies have 46-48 inch wingspans and weigh 2.5 - 3 pounds. They are built of balsa wood, Fiberglass and a carbon fiber/magnalite composite material. They have .32-.40 glow engines and run on specially blended racing fuel. During a performance, the engines reach 16,000 RPM. It takes about 40 hours to build one of the competition planes and Smith said he usually has five to seven on hand. He said it is not unusual to build a plane especially for a particular competition.

"I always wanted to get into this," Smith said. "I like the competition." What's the best part? "I can walk away from all my crashes," he said with a smile. Much of his success comes from a willingness to push beyond the limits, to try things with his planes that others say won't work. Experience is another key. "During a competition, you automatically do what you've practiced. My experience pushes me through the tight spots."

Like many adult hobbies, competing with radio-control model airplanes can be expensive. Smith said factory sponsors are a big help. Futoba Corporation, based in Irvine, California, provides his radio-control devices and Horizon Hobbies in Champaigne, Illinois, supplies the engines for his planes. Also, the Air Flair Company in New Carbide, Ohio, sells a model airplane kit, the Smith Super Special, designed by Smith, to competitors around the U.S. and Japan, helping to defray the costs.

A relatively new sport, radio-controlled model airplane competitions originated in south Georgia and South Carolina. This was the fifth year for the Fun Fly Nationals to be held. Smith, a flier for about 12 years, was a driving force in the evolution of fun-fly competition. He said everyone involved works together to improve the planes and the level of competition. "Model Airplane News" and "Radio Control Modeler" are trade publications for the sport, and include detailed "how-to" articles in every issue that help fliers of all skill levels. Smith has had several articles published.

Smith said anyone wanting to learn to fly models will need help from someone with a "trainer" system. The hardest part is (you guessed it) learning to land. Basic entry-level trainer planes cost approximately $500, Smith said. Luckily, trainer planes are sturdily built and can withstand most of the routine crashes associated with beginning fliers. As a flier moves to more specialized equipment, such as one-quarter scale planes or ducted-fan jets, the prices go up.

Right now Smith is building airplanes that will compete during the upcoming April-October season. There are some local events, such as one in Marion, Kentucky, that are sanctioned and hosted by the American Modeler's Association. However, to achieve the national recognition as Smith has requires some time on the road. He has competed as far away as Vero Beach, Florida, Greenville, South Carolina, Raleigh, North Carolina, and Indianapolis, Indiana.

Racing go-karts across the nation

Since he was six years old, Craig McGuire has always been racing something. First it was three-wheelers, then four-wheelers, then Odysseys. His father always worried about him getting hurt. But now he races go-karts, he has become very successful at it, and his biggest fan is his dad, Gerry, who manages the nuclear safety upgrades program at Portsmouth and coordinates highly enriched uranium shutdown and phase-out activities.

Gerry not only goes with Craig on all of his racing trips, but he has raced himself when Craig could not. Four years ago when Craig had an appendectomy, Gerry had to step in for him. He learned quickly that driving a go-kart was no easy task at 55-60 m.p.h. with the bottom of the seat only 3/4-inches off the ground. He admitted that after he raced, he stopped offering pointers to Craig.

But he still gives Craig a lot of support. The two of them travel to at least ten World Karting Association (WKA) races every year in such places as Dagsboro, Del.; Greensboro, N.C.; Hortense, Ga.; Daytona Beach, Fla.; and Greenville, Tenn., where in October, Craig had his best finish of the year winning the Stock Heavy class by defeating Rohn Moon, the five-time national champion. He finished fourth in the nation in that class for the 1993 season.

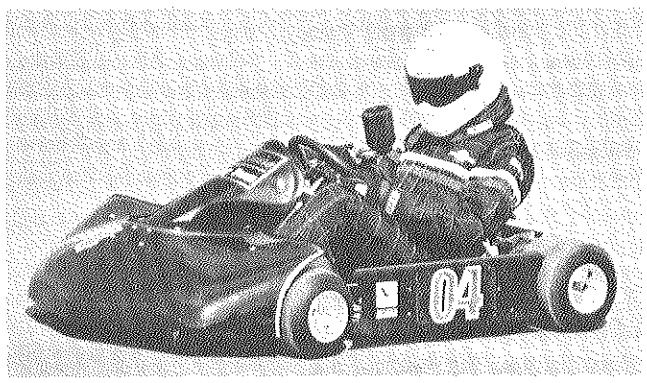
In the WKA, there are 12 different classes, so at each set of races, there are 12 different champions. Each race won makes the winner the national champion in that class until the next competition rolls around.

Most of the people that Craig races against do it for a living, but Craig, a 1992 Eastern High School graduate, is a full-time student at Ohio University's Chillicothe branch, majoring in civil engineering. He is considering a career in industrial engineering. Gerry and Craig used to build their own motors, but now Craig is sponsored by Robinson Speed Shop in Pittsville, Md., which supplies him with five-horsepower Briggs and Stratton engines.

Craig's go-kart career began at age 14. At first he raced locally, and he started winning a lot, but he was getting bored, Gerry said. So in 1990, Craig started racing in a national program. In 1993, Craig finished in the top 10 in two classes—stock medium (where the kart, driver and motor can weigh no more than 325 pounds) and super stock (where they must still weigh 325 pounds or less but no stock carburetor is required in the engine). He also won approximately $4,000 during the year, but ironically, the money was won at local races, where audiences pay anywhere from $8-10 to watch a race. He receives no money at the national level. His local sponsors include the Atomic Employees Credit Union, Rapp's Repair Shop, Veach's Trucking, Schrader's Sand and Gravel, and Foster's Ace Hardware.

Gerry takes approximately two weeks of vacation a year to support his son's racing career. "We're a team--it's a good way to raise a son," Gerry said, adding that "I know where he is every Friday and Saturday night."

Gerry's wife, Brenda, a beautician, often goes on the trips for moral support. Gerry and Brenda also have a daughter, Shawna, who is a respiratory therapist at Ross County Medical Center.



Craig McGuire, son of Gerry McGuire, Portsmouth, finished fourth in the nation in the WKA (World Karting Association) Stock Heavy class for the 1993 season.

Smalley -- 39 years and counting

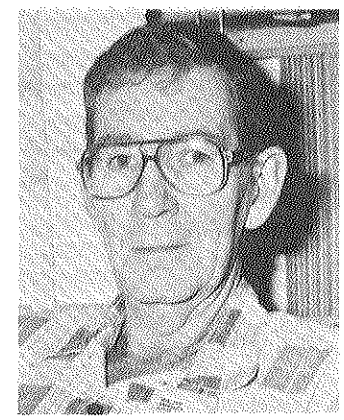
Since Walter "Edwin" Smalley, better known as "Dude," came to work at the Portsmouth plant in August 1954, he has only missed one day of work. His wife, Zelma, let him oversleep, he says, and "I'm still mad at her."

Since that day in 1954, he has racked up a perfect 39-year attendance record. Smalley, the father of seven children, has missed time only for vacation, funeral leave and E-squad training.

When he's not working as a Chemical Operator at the plant, he's usually laying brick. This leaves little time for hobbies, which he says are working and raising children. He also has enjoyed attending his children's sporting functions. He does not recall ever taking an extended period of time even for vacation.

Two of Smalley's "kids" work at the plant as well. Jim Smalley works in Decontamination Services, and Edwin Jr. works in the '00' Cascade. Edwin Jr.'s wife, Karen, also works in the '00' Cascade. Smalley's children range from ages 19-42. The youngest left for Youngstown State University last fall, leaving the house "childless" for the first time since 1950. Smalley built a house for his large family in 1962 near McDermott.

Before coming to the plant, Smalley served an apprenticeship as a machinist for Norfolk & Western Railroad. However, he says he could see the "handwriting on the wall." Soon after he left the railroad business, it did away with steam locomotives which would have cost him his job if he had stayed.



Smalley

Smalley says he has only been sick once since he started work at the plant. Approximately seven years ago, a sudden illness caused him to miss a couple days, but he counted it as vacation time in order to maintain his long standing record.

He did not plan to break any attendance records when he came to work at the plant, but he says, "I wanted to set a good example for my kids." And he said they all had good attendance records while going to Northwest schools.

Smalley has no immediate plans to retire, but when he does, he says he will continue his work as a brickmason.

Jolley tells Portsmouth how to make diamonds

What do all successful people have in common? "The ability to dream," said Willie Jolley, a motivational speaker and "Inspirtainer" who spoke at the Portsmouth plant on February 24. Jolley's appearance was part of Portsmouth's Black History Month celebration.

Jolley is living his dream by traveling around the country to inspire others to live their dream. Not only has he been successful as a motivational speaker, but he has also made a living singing commercial jingles. He is a five-time Washington Area Music Association Wammie Award Winning singer as he was chosen best male jazz vocalist in 1986, 1989 and 1990, and best male inspirational vocalist in 1991 and 1992. He also hosts "The Magnificent Motivational Minute," on Washington, D.C., radio stations, and he has written a book of sayings. His latest venture is a pilot for a television talk/variety show.

Jolley stressed that when Martin Luther King made the statement, "I have a dream," he did not say he had a wish. "Dreams or visions can change your life," he said, referring to the biblical scripture that states "without a vision, people perish."

For example, Boxer Muhammad Ali had a vision. Jolley said that Ali created a character that everyone would either love or hate. Those who wanted to see him win came to see him fight, those who wanted to see him lose also came. As a result, every seat was usually taken at an Ali fight.

"Dreams are the seeds for success," Jolley said, adding that "you've got to know how to water them." He emphasized that people must live their own dreams and not the dreams of other people, and they must take care of their dreams, bewaring of the weeds that crop up around them and try to choke them. He called these weeds "dreambusters" and noted that you can't see them coming as they are often in the form of a neighbor or family member.

When you run into a dreambuster, Jolley said you have one of two options. Either you turn them into a dreammaker, or you "cut them loose, or they'll drag you down with them." The number one dreambuster, he said, is "dulling influences" such as drugs or alcohol. He said that more than $24 billion was lost in the corporate world in 1993 due to drug use.

Jolley stressed that the number one drug in the nation is alcohol, noting that every third commercial during a sporting event is a beer commercial. "They don't show the families that are torn apart," he said. He added that the number one killer today of kids younger than 21 is drinking and driving. He also discussed the "plug-in" drug, television, which he said is seductive. "You can't get away from it," he said.

A second dreambuster, he said is associating with negative, small-minded people who like to use the word "can't." "You can do anything you want to," he stressed, recalling how the famed rapper M.C. Hammer was dancing for pennies outside a baseball stadium in Oakland, Calif., just 10 years ago. Now he is on Forbes Top 100 List for Artists,

Motivational speaker Willie Jolley poses with USEC Site Director Lee Fink. Jolley spoke at Portsmouth on February 24 as part of Black History Month activities at the plant.

and he owns a 20-million-dollar home.

He also added that you should not let age stop you, pointing out that Comic George Burns just recently signed a 10-year contract with Caesar's Palace in Las Vegas—at age 95. "The richest place in the world is the graveyard," he said, adding that the best invention, the best song written and the best book written may have all went to the grave with their creators.

The third dreambuster he named was fear—a fear of taking a risk. He stressed that the only inherent fears are the fear of falling and the fear of loud noises--all other fears are learned. "We've got to go out on some limbs to get the fruit," he said.

His fourth dreambuster was settling for mediocrity. "It doesn't matter where you come from, it matters where you're going," he said. Everyone needs to be striving for greatness, he said, or in other words, striving to be diamonds. "Diamonds are not extinct. They are just rare, but they can be recreated."

Jolley offered six points or "p's" on how to make diamonds:

1) **Purpose.** He stated that "you cannot get out of this life alive no matter what," so make sure you are doing what you want to be doing--living your purpose.
2) **Passion.** He said that if you love what you do, you won't need an alarm clock to wake you up in the morning.
3) **Plan.** He noted that when you find what you love, the money will follow.
4) **Preparation.** He said that you have to be ready for the opportunity when it presents itself. One way to do this is to read more books than anyone else, he said. The average person reads one book per year, but he pointed out that the average self-made millionaire reads one book per month, "and no Harlequin romances either," he added. "The one who makes it in life is the one with the most information," he stated.
5) **Pursuit.** If you don't go after your dream, he said, it's a "pipe dream."
6) **Pressure.** If you're too comfortable, he said, you won't go after your dream. "Most men don't know how fast they can swim until sharks pursue them," he added. It takes pressure to make diamonds, he said, noting that a diamond is only a piece of coal until pressure is applied, and he added that you should not run from your pressure.

Jolley recalled how Homerun Hitter Hank Aaron had twice as many strikeouts as homeruns. "He missed it a lot, but when he hit it, he hit it out of the park," he said, encouraging MMUS employees to "hit it out of the park" before he sung his rendition of "The Impossible Dream" for the audience.

Earlier in the morning, Jolley spoke to approximately 1,000 Chillicothe High School students on "How to be Great." Students from Portsmouth High attended his speech on plantsite. Jolley's visit was coordinated by Jeanette Langford of Public Affairs.

Other Black History Month activities included an appearance by Lyman Montgomery on February 17. Montgomery, who heads a daycare service in Columbus, spoke on "The Life and Times of a King."

In addition Wayne McLaughlin, Director, Human Resources, served as the special speaker for the sixty-ninth observance of National Afro-American History Month on February 18. This event was sponsored by the Veterans Affairs Medical Center's Equal Employment Opportunity Committee in Chillicothe.

Paducah activities promote African-American awareness

Paducah recognized the unique contributions and achievements of African Americans with a series of events during February.

Dr. Lea Williams, Executive Vice President of the National Action Council for Minorities in Engineering, Inc., based in New York, was guest speaker at the annual community "Soul Food Dinner," sponsored by the plant and Paducah Community College on February 27.

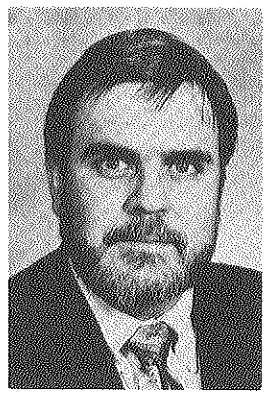
A native of Paducah, Williams spoke on how lessons from the past can inspire greatness in the future. She paid tribute to African-American heroes and heroines who have inspired others to achieve. Williams also said individuals need to take responsibility for the upcoming generation by providing positive role models and mentorship opportunities. She challenged churches to provide alternatives for youth, and urged community-based organizations to promote the good in the community.

Employees were invited to see Kemba Webb in a dramatical and musical portrayal of the life and work of Harriet Tubman, held at the plant February 25. Webb is a veteran stage performer who has worked extensively with children since 1968, involving them in the performing arts. Webb also performed at the Soul Food Dinner and at some area schools during the month.

A display of African-American art and historical information was set up in the plant cafeteria and handouts with more detailed information were provided there. Two days each week videos with African-American themes were shown at lunchtime and employees were invited to bring their lunch and watch. A community calendar of events and "America's Black Heritage" calendars were made available to employees and the plant's adopted schools.

The African-American awareness activities are planned and coordinated by a committee, in cooperation with the plant's Equal Employment Opportunity/Affirmative Action Organization. Committee members for 1994 include: Jean Stokes, Sheila McMullen, Jerome Logan, Jeff Strong, Helene Irvin and Gene Collins.

Paducah promotes Cypret



Cypret

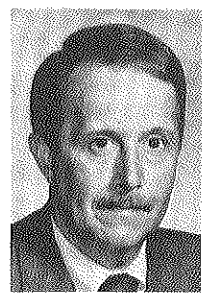
Orville Cypret has been promoted to Radiation Protection Manager and Assistant Manager of the Safety and Health Division, reporting to Jim Thomas, Division Manager.

In his new position, Cypret is responsible for implementation of the Uranium Enrichment Radiological Protection Program.

Cypret has worked at the plant for two years and was previously Manager of the Dosimetry Program. He holds a bachelor's degree in nuclear engineering from the University of Missouri-Rolla and a master's in radiological health from the University of Arkansas for Medical Sciences. He is a registered professional nuclear engineer, is affiliated with the American Board of Health Physics, is a member of the Health Physics Society, the American Nuclear Society, Rho Chi, and the Arkansas Academy of Science.

Cypret and his wife, Dianne, live in Reidland. They have two children, Aaron, 18, a freshman at the University of Missouri-Rolla, and Amy, 14, a freshman at Reidland High School. The Cyprets are members of Reidland Baptist Church.

Administrative Promotions



Lamb

Paducah

Gerald Lamb has been promoted to Plant Shift Superintendent in the Safeguards, Security and Emergency Services Division. He reports to Tony Hudson, PSS Coordinator.

Service Milestones

March 1994
Paducah

25 years -- Mary McDougal.

20 years -- Jesse Braboy, Willie Williford, Billy Adams, Celeste Skidmore, Marty Toon, Don Valentine, Jimmy Moss, Dan Humphrey, Richard Cartwright and Carolyn Mayo.

10 years -- David Egner, Kay Dabney, Carol Ewing, Jim Lewis, Jerry Pursley, and Jerry Pursley (MMES).

5 years -- Kerry Hill, Butch Durrett, Denise Wilson, Mark Edwards, Sharon Davis, Skip Hancock, Jim Johnson, Chuck Stigall, Jami Feezor and Mark Waggoner.

Portsmouth

40 years -- Virgel L. Smith, Charles L. Snedecor, Donald E. Bradshaw, Marvin L. Rice and Truman E. Brown.

25 years -- Jesse Franklin Jr.

20 years -- Donna J. Montler, Jeanne E. Nunn, George W. Childers Jr., Michael R. Corbin, Donald E. Dodridge, William R. Waugh, Howard A. White, John P. Aeh, Russell B. Goode, William Hale Jr., Robert A. Sickles, Richard K. Tschappat Jr., Preston K. Zimmerman, Shirley J. Walter, John M. Cordle, Clinton V. Fouch Jr., Raymond T. Kimbler, Debra L. Young, and Ralph M. West.

15 years -- Benjamin A. Grose, Candace S. Dade, Charles E. Sweatt Jr., Kenneth R. Horsley Sr., Judith R. Vollrath and Clyde R. Dulin.

10 years -- Wanda G. Moore, Dollie I. Workman, Richard B. Howard, Beth A. Keener, Donald F. Butler Jr., Michael R. McDaniel, Charles O. Lawson Jr., Gregory F. Daniels, Ricky A. Bowles, David C. Bowe, Christophe A. Atwood, Steven E. Adams, Donald L. Walters and Larry C. Sturgill.

5 years -- Mark G. Rader, James A. Walburn and Gary K. Salyers.

EDITORS' NOTE: We missed Service Milestones for Portsmouth's Energy Systems personnel in February. They included Rosemary Richmond, 15 years, and Kanward L. Faulk and William M. Schloesslin, both 10 years. We apologize for the oversight.

NMA chapter formed at Paducah

The Paducah Plant has a new National Management Association (NMA) Chapter. So far, 66 people belong to the group that is dedicated to managerial excellence, personal and professional growth, leadership and development. The chapter was formed to help members develop an understanding of management as a profession, to promote development of leadership skills and to exchange information on management practices. The members bring a variety of experience and skills, leading to better working relationships.

NMA's goals are to provide leadership development opportunities, provide an educational curriculum that will cover numerous management topics, and to be involved in community activities that will build goodwill and enhance the overall image of the management profession.

The PGDP NMA Chapter was created in October. Membership is open, and all employees are encouraged to join and participate. Officers include: John Dew, President; Barbara Burrage, Vice President; Carol Ewing, Secretary; and Darryl Pea, Treasurer. The PGDP NMA Board of Directors is made up of: Ron Taylor, Ladd Mathis and Judy Howe, all with two-year terms; and Steve Holshouser, with a one-year term. Meeting announcements are made in "InsideP." For more information, call one of the NMA officers.

New Arrivals

Paducah

Son, Austin Gill McKinney, June 10, to Todd and Keri McKinney. Todd works in the Engineering and Technical Support Department. Austin Gill has an older brother, Alex.

Son, Weston Yates Loyd, November 8, to Tim and Michelle Loyd. Tim works in the Health Physics Department.

Son, Dylan Lee Hoyer, November 23, to Keith and Cheryl Hoyer. Keith works in the Productivity Improvement Department.

Son, Paul Anthony De Neve, December 4, to Bryan and Barbara De Neve. Bryan works in Materials and Equipment Technology and Barbara works in Engineering and Technical Support.

Son, Bishlam Irvin Pea, December 18, to Darryl and Regina Pea. Darryl works in the Industrial Safety Department for MMES. Regina works in the Applications/User Services Department.

Son, Brandon Jacob Beverly, February 21, to Joseph and Connie Beverly. Joseph works in the Security Police Department.

Portsmouth

Son, Caleb Jasek, December 6, to Mark and Vicki Andronis. Mark works in the Police Department.

Daughter, Sarah Abigail, December 9, to Mitch and Beth Wood. Mitch works in the Police Department.

Daughter, Kayla Alexandria, December 9, to Bob and Norma Wampler. Bob works in Records Management.

Son, Trevor Arthur, December 14, to Polly and Kenneth Mingus. Polly works in Event Investigations. Grandfather Bill Pyles works in GPS Safety, Health, and Information Management.

Daughter, Hannah Faith, December 27, to Joseph and Joanna Brewster. Joseph works in Radiochemistry.

Son, Dalton Kekoa, January 3, to Chris and Stephanie Warner. Christopher works in the Waste Facility Management Department (MMES).

Son, Jevic Ottie, January 19, to Everett and Angie Dunn. Angie works in Plant Training.

Son, Travis Garret, January 22, to Greg and Aura May Daniels. Greg works in the Police Department.

Son, Bradley Taylor, January 26, to David and Lisa Thompson. David works in Mechanical Engineering.

Boy, Andrew Edward, January 29, to Diana and Lowell Yates. Diana works in Uranium Material Handling.

Son, Blake Alexander, February 9, to Ward and Colleen Litchfield. Ward works in Industrial Hygiene.

Daughter, Jillian Justine, February 23, to Randall and Lori Keefer. Randall works in Chemical Operations.

Daughter, Taylor Danielle, February 26, to Sherry and Kerby Thompson. Sherry works in Uranium Analysis.

Turning ideas into reality

The engineer and the global challenge

by Paul I. Davis, P.E.

Each year, our nation's engineers take one week to celebrate accomplishments and promote increased public awareness of their profession. Utility Services and Energy Systems engineers joined engineers nationwide in celebrating National Engineers Week (NEW) February 20-26. The week's theme, as in the past few years, was "Engineers: Turning Ideas into Reality."

Assisted by the NEW Committee, founded in 1951 by the Society of Professional Engineers, thousands of engineers participated in NEW and were supported by hundreds of engineering societies, corporations, government agencies, universities and businesses.

First U.S. engineer

National Engineers Week coincides with George Washington's birthday. Washington's surveying skills led to his title as the first U.S. engineer. On June 9, 1778, at Valley Forge, Penn., General George Washington issued an order calling for engineers and engineering education. This order is considered to be the genesis of a U.S. Army Engineers School which was eventually headquartered at Ft. Belvoir, Va.

Host of NEW '94

The host society for NEW '94 was the American Society of Civil Engineers. Its president, James W. Poirot, chaired the event. Honorary Chair was Donald R. Beall, Chairman and CEO, Rockwell International Corporation.

Beall stated that "the underpinning for U.S. global competitiveness and sound domestic economy is the skills, education and training of our work force, including engineers and scientists....Engineers play a key role in the functioning of our society, and we have great need for their talents. Important tasks lie ahead for engineers...tasks like cleaning up the environment, solving complex telecommunications equations, building tomorrow's exploration vehicles, and designing electronic systems to run everything from toasters to trucks. 'Engineering the future' is a concept that puts engineers in the driver's seat today to help shape tomorrow's future."

Poirot stated that engineers and their profession are at a crossroads. "Engineers are facing continuing decline in engineering employment, shorter careers in engineers' primary areas of technical competence, and progressive minimization of the engineer's role on the corporate team. Engineers' destiny is largely in their own hands to enhance their position in corporate society, become indispensable to the process of creating value in today's workplaces, and master once again the forces of technological change for their profession's advancement."

Our global challenge

The vision of MMUS is to become known as the highest quality, lowest cost producer of enriched uranium and services in the world. The engineering profession plays an important role in meeting this goal; however, success will not be determined by the successes of a particular group within MMUS, but rather by the combined efforts of all personnel serving their customers.

In remaining technically competent and becoming indispensable in turning our vision into reality, we need to explore several areas of learning.

Lifelong Learning

Without lifelong learning, technical competency diminishes with time. Walton M. Hancock, Associate Dean at the University of Michigan, stated that an engineer who has been out of school for five years is not working the state-of-the-art, for we are not teaching what we taught five years ago.

Working through a personal career educational plan is vital to continued competency in an engineer's chosen technical expertise. In addition to the classical engineering disciplines is a working knowledge of the engineering specialties:

System Safety Engineering provides an understanding of the application of hazard analysis to identify hazards and assess risk in system applications.

Systems Engineering introduces the basic concepts of user requirements definition, system requirement definition, function analysis, and requirements allocation necessary to do a structured treatment of developing the elements of the project using an engineering top-down approach.

Software Engineering outlines a structured approach to developing software, from defining user's requirements, coding, verification and validation, testing and acceptance of the software product.

Knowledge Engineering gives an understanding of the art of expert technology and information transfer to bring the principles and tools of Artificial Intelligence to bear on difficult problems.

Human Factors Engineering addresses human behavior, abilities, and limitations in complex process applications.

Value Engineering provides a systematic team approach in which all project information is thoroughly evaluated, problems are highlighted, and effective, economical solutions are achieved.

Organizational Learning

Engineers will be required to respond to and expand on ideas from others to turn visions into realities. Dave Ulrich, and others, in the article *High-Impact Learning: Building and Diffusing Learning Capability* stresses the acquisition of competence, the ability to change, and the need to be competitive as critical success factors for organizations. By enlarging its capacity to learn, the organization increases its chances of success on each of these dimensions. The ability to adapt quickly stems from an ability to learn , that is the ability to assimilate new ideas and to transfer those ideas to action. Without this mental and physical dexterity, an organization will likely fail to recognize changing customer expectations, stay with existing practices beyond reason, and remain unresponsive to competitors' initiatives.

Organizational learning occurs as systems and the culture in the organization retain learning and transfer ideas to new individuals. This kind of learning is shared across organizational boundaries of space, time and hierarchy. It survives the turnover of individuals.

Thinking abstractly, an engineer's memory, is a problem space of available knowledge when called upon for solutions to problems. Without the continued individual and organizational learning, the problem space is constrained for lack of knowledge and often the case is one of little to no searching for alternatives, resulting in repetitive type solutions.

"Remote" Engineering

U.S. engineering is too expensive, so engineers will be required to streamline the engineering process without sacrificing quality. A number of global economic forces are combining to heap pressure on American engineers by increasing the attractiveness of foreign engineering in places such as India, Malaysia, China, the Philippines, and Ireland.

The most significant forces are the response by U.S.-based corporations to intensify global competition; the rising competency and numbers of engineers in the developing countries, where wages for high-skilled are substantially below the U.S. norm; and the vast improvement in communications, making "remote" engineering more attractive as distance becomes less of a factor in the engineering equation.

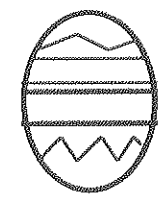
Pre-College Education

To meet the global challenge, creating an environment where science and mathematics education flourishes will become increasingly important. Improving student interest and achievement in math and science is a prerequisite to building technologically advanced work forces. We must continually refurbish the pipelines we established to develop well-prepared students for college entry.

Easter Egg Hunt set for April 2

by John Gedeon

It wouldn't be Easter without the annual Children's Easter Egg Hunt, and 1994 is no exception. Mark your calendar now for Saturday, April 2.



The location will again be the Vern Riffe (Pike County) Joint Vocational School, located on State Route 32 near the North Access Road. The gates will open at noon with the actual egg hunt beginning at 1 p.m.

Sandra Pollard, this year's chairperson, has been working out the details for where to hide 8,000 eggs. There will be three hunt areas for the following age groups: 1-4, 5-8, and 9-12. In each hunt area, there will be several special eggs with a giant stuffed rabbit going to the lucky winners.

There is something for everyone at this event. Smokey the Bear, the Easter Bunny and Mickey Mouse will be there along with "Marko," a magician, juggler and balloon sculpturer. Admission is free, and there will be special treats available as well.

Bring your VCR or cameras, and get some pictures. All employees, retirees and their families, including children and grandchildren, are invited to attend. We hope to see you and your family there!

NDA program sends Portsmouth to Argentina

by Brent McGinnis
Applied Nuclear Technology

At the request of the National Security Program Office located at the Oak Ridge Y-12 Plant, the Applied Nuclear Technology Department (ANT) at Portsmouth is supporting a cooperative nondestructive assay (NDA) measurements program between the Governments of Argentina, Brazil, and the United States. This program is funded by the Department of Energy (DOE) under a support task titled International Cooperation: Argentina/Brazil (SG065).

A primary objective of this cooperative program is to determine the best NDA method for verification of in-process (gas and solid-phase) inventory for a small scale gaseous diffusion facility. This NDA measurement method will be available for use by the International Atomic Energy Agency (IAEA) and the Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials (ABACC). A team of scientists and engineers from Argentina, Brazil, and the U.S. performed these measurements. The measurements were done at Portsmouth, the Oak Ridge K-25 Site, and the gaseous diffusion mock-up unit in Pilcaniyeu, Argentina.

In April 1993, Portsmouth personnel attended a strategy meeting in Oak Ridge to design a series of experiments to be conducted in the U.S. and Argentina. In this meeting, the equipment and instrumentation supplied by Portsmouth were identified. Also, it was determined that a tour was needed to develop the proper measurement approach for the Pilcaniyeu mock-up cell. Brent McGinnis, a member of Portsmouth's ANT Department, toured the Pilcaniyeu Gaseous Diffusion Plant in October 1993 with other NDA specialists from K-25, Y-12, and the Los Alamos National Laboratory.

Specialized positioning equipment was built to conduct the experiment successfully. The amount of material within the process equipment was determined by neutron and gamma-ray measurement techniques since the design of the process equipment required both measurement techniques. Studies were done to evaluate background considerations and detection efficiencies for the three facilities. Software was developed and tested that would convert the counts from the detectors into the amount of uranium contained in the cell.

In August 1993, a team of Argentine and Brazilian scientists visited the Oak Ridge K-25 Site and the Portsmouth plant to participate in NDA measurement experiments at these facilities. Measurements were conducted at K-25 to evaluate the NDA techniques on shutdown equipment, while the measurements at Portsmouth were done to study NDA measurement techniques for an operating facility. A duplicate set of measurements were completed on a cell in the X-330 Process Building at Portsmouth. The cell was initially measured under normal operating conditions and then remeasured after evacuation.

Operations personnel assisted with cell evacuations and gathered readings related to pressures and temperatures. Maintenance personnel helped move heavy equipment. Operations and laboratory personnel pulled gas samples during normal operation and while the cell was evacuated. These samples were analyzed for enrichment and UF6 gas concentration. The NDA data generated was compared to the cell inventory determined by software supplied by the Nuclear Material Control and Accountability department. The amount of U-235 determined by NDA techniques was compared to the operations declared value for the cell. This comparison will be used to determine the validity of the NDA measurement program.

From December 1993 through February 1994, NDA measurements were performed at the Pilcaniyeu Gaseous Diffusion Plant mock-up cell. The diffusers in this cell were totally refurbished with new barrier and offered an excellent opportunity for NDA measurements that could not normally be done on U.S. equipment. The Pilcaniyeu facility is a small enrichment plant with an annual capacity of approximately 20,000 SWUs. Portsmouth personnel assembled the necessary NDA instrumentation and shipped it to Oak Ridge where it was later shipped to Pilcaniyeu. In December 1993, Dennis Meadows, of the ANT Department at Portsmouth, along with other U.S. scientists and engineers, traveled to Pilcaniyeu to set up and perform NDA measurements. Background measurements were done at the facility before any UF6 gas was put into the system. Process gas was then introduced into the system, and NDA measurements were performed. The deposits were tracked using NDA instruments and compared with material charged into the system. Portsmouth ANT employees Brent McGinnis, Tony Quillen, and Ralph Royce participated in a series of duplicate measurements at Pilcaniyeu in January and February.

The data generated from this series of measurement campaigns is currently being evaluated for presentation to the IAEA and ABACC in Vienna, Austria. A close-out meeting for final data analysis is being scheduled.

The dedication and professionalism exhibited by all Portsmouth personnel associated with the cooperative measurements project has been recognized by our peers in this field. The joint measurement exercises and technical discussions have been recognized for their contribution in strengthening the U.S.-Argentina bilateral nuclear relations. Our professionalism and dedication will ensure that we will be successful in the future. A special thanks to all personnel at Portsmouth that made this experiment a great success: Brent McGinnis, Dennis Meadows, Tony Quillen, Ralph Royce, Keith Wines, Tony Bayes, and Angela Brown of Applied Nuclear Technology; Russ Johns of Nuclear Material Control and Accountability; Dan Wilburn, Craig Rhine, Tim Gannon, Andy Zimmerman, Larry Montgomery, Randy Murphy, Jimmy Littlejohn and Paul Adams of the X-330 Process Building; John Hobensack and all Shift Personnel from the Process Services Department; Richard Walls, Steve Baldwin, Robert Cline, and Sharon Liles of Mass Spectrometry; members of Shift Management; and Charles Good of Radiochemistry.

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CABLE ADDRESS: MITSUBISHI NEW YORK
TELEPHONE: (212) 605 2000

October 25, 1993

Mr. Charles Martin
Paducah Site Director
USEC
P.O. Box 1410
Paducah, Kentucky 42001

Dear Mr. Martin,

This is a brief note of thanks for the kind arrangements and assistance which you extended to us during our recent visit to your plant. The mission members of JAURD were very impressed by the efficient operation of enrichment and achievements in cost reduction. They also very much enjoyed the dinner at the Executive Inn. They safely returned to Japan and expressed their appreciation for allowing them to visit.

Once again, thank you for your hospitality and I look forward to seeing you again in the near future.

Sincerely,

H. Maekita, Deputy General Manager
Advanced Metal & Nuclear Fuel Dept.
Non-Ferrous Metal Division

cc: Mr. Steve Polston (MMUS)
Mr. Robert Hamilton
Ms. Elaine Vallejos

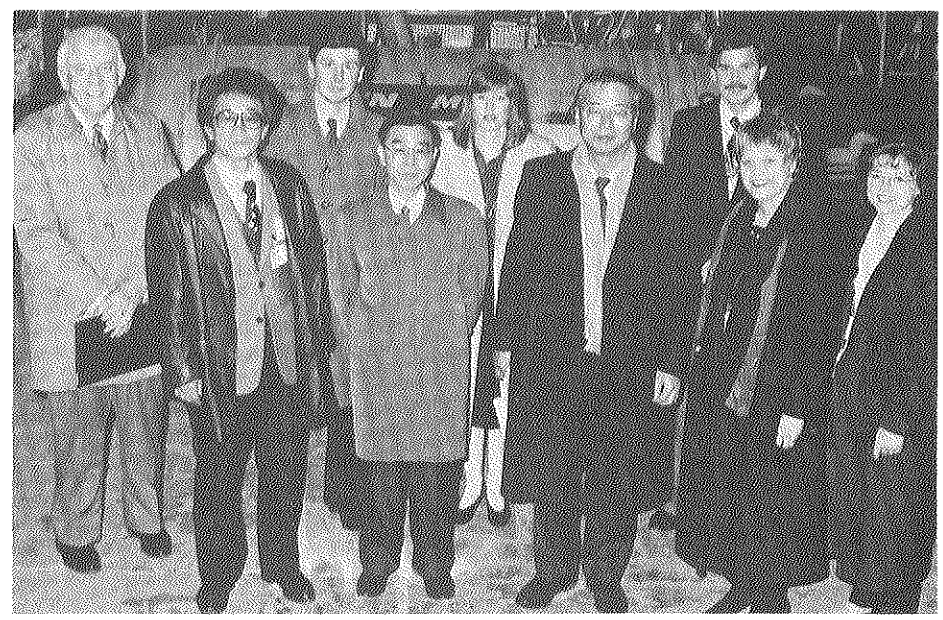
The Portsmouth personnel above have recently been working to support a cooperative nondestructive assay (NDA) measurements program between the governments of Argentina, Brazil, and the United States. They are (front) Mike Riley, Brian Bond, Sharon Liles, Brent McGinnis, Russ Johns, Tony Quillen, (back) Richard Walls, Craig Rhine, Dan Wilburn, John Hobensack, Dennis Meadows, Keith Wines, Ralph Royce and Charles Good.

Thank you

The United States Enrichment Corporation markets enrichment services to utilities in the United States and abroad. As part of that effort, customers and potential customers, accompanied by USEC marketing staff, routinely visit the plants to learn more about the enrichment process and the service we can provide. Above is a thank-you letter sent after one such visit. Many of you work hard to help make our guests feel welcome and we want you to know that work is important and appreciated. Next month, watch for an overview of the USEC marketing staff and its mission.

Mitsubishi Visits Portsmouth

On January 26, officials from Mitsubishi Nuclear Fuel in Tokai, Japan, visited plantsite. Mitsubishi is a fuel processing plant to whom we provide low enriched uranium. Their visit included a meeting with USEC Site Director Lee Fink and a plant tour. At right, shown from left to right are Dave Knittel, MMUS; Toshiyuki Kai, Mitsubishi Nuclear Fuel; Christophe Hinfray, USEC; Tsuneo Watanabe, Mitsubishi; Amy Main, USEC; Masayuki Maekita, Mitsubishi; Gary Eisnaugle, MMUS; Elaine Vallejos, USEC; and Linda Jarrell, USEC.



Environmental Restoration News

The U.S. Department of Energy is working in cooperation with several residents and property owners in the Portsmouth area to conduct additional soil and groundwater sampling to determine cleanup levels for the Portsmouth plant.

Beginning the week of February 14, DOE began taking samples at approximately 20 different locations off the government reservation to adequately characterize the concentrations of naturally-occurring constituents in the soils and groundwater at the facility. Surface and subsurface soil and groundwater samples down to a depth of 50 feet will be analyzed primarily for metals, gross alpha and beta radioactivity, uranium and transuranics. The locations were selected based on areas with similar geologic characteristics to the plant site.

Both the Ohio and U.S. Environmental Protection Agencies will oversee the field activities during the next two months. These efforts are part of the extensive environmental restoration program that is underway at the plant to clean up specific areas with chemical and low-level radioactive contamination.

The purpose of the sampling is to better understand what levels these constituents exist naturally in the ground in areas where there have been no impacts on the environmental media from plant activities, according to Richard Meehan, DOE's Manager of the environmental restoration at Portsmouth. The study is necessary because all areas have some natural radiation, and these background concentrations are needed to compare against the sampling data obtained during field investigations at the plant site, Meehan added.

Plant officials routinely sample soil, surface water, sediments, groundwater, food crops and plants off-site at various times during the year under their annual environmental monitoring program to evaluate any impact to the surrounding areas from plant operations. However, this is the first sampling being conducted in areas away from the site specifically to derive the concentrations of elements which would be naturally-occurring at the plantsite had the plant not been operating over the last 40 years.

Women's history focus in March

Congress has designated March as "Women's History Month" to recognize the contributions women have made to the growth and strength of our nation.

The designation notes that women play a critical economical, cultural and social role throughout the country by constituting a significant portion of the labor force working outside the home. Further, women have traditionally provided the majority of the nation's volunteer labor force. Women were particularly important in the establishment of early charitable, philanthropic and cultural institutions and served as early leaders in the forefront of every major progressive social movement.

Traditionally, history has focused on political, military and economic leaders and events. By expanding the focus of history to include the activities and contributions of women from diverse walks of life, we provide a wealth of vital new role models.

In looking at women's history, we continue to examine activities in the public arena, but we also look at the private sphere, at the everyday life experiences of women. The courageous women of the past who dared to forge new roads join women living quietly with their families, creating a world where possibilities are limitless. Their stories can be an inspiration for all of us.

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The Paducah plant is celebrating National Women's History Month during March with activities planned throughout the month. Each week has a different emphasis, including health; fitness and nutrition; success; low-fat cooking; and motivation.

During Health Emphasis week, the focus is on breast cancer. Women who have fought and overcome the breast cancer battle share their true stories. Also, a representative from the American Cancer Society will discuss prevention and where to turn and what to do should one become a victim.

Nautilus Racquet and Swim Club of Paducah presents an exercise demonstration and a nutrition presentation during Fitness and Nutrition Emphasis week.

What makes a woman successful? During Success Emphasis week four local women visit the plant to talk about their accomplishments and the experience they gained traveling the "road to success". Speakers include Anne Gwinn, attorney at law; Shirley Litty, Paducah Community College; Sylvia Mathis, Peoples First National Bank and Trust Co.; and Bonnie Schrock, Western Baptist Hospital.

What's cooking next? Well, during Low-Fat Cooking Emphasis week, Roberta Morse, author of "What's Cooking with Ro," shares some of her favorite recipes and also demonstrates how to prepare them.

Our featured guest speaker for motivation emphasis week is Dr. Diane O'Brien, Professor, Murray State University. A program development spe-

(Continued on page 9)

New Employees

Paducah
December 15
Debra Lynne Gilchrist,
Maintenance Services.

Phyllis Nunn,
Environmental Monitoring.

Steven Kent Bowe,
Engineer, MMES.

Martin Eugene Hughes,
Technical Associate, MMES.

Jennifer Woodard,
Engineer, MMES.

January 1
Jay William Maudlin,
Environmental Compliance.

January 3
Holly Sullivan,
Employment and Personnel.

Brenda Gay Satterwhite,
Health Physics.

Ricky Bruce Satterwhite,
Health Physics.

January 10
John Hodges,
Engineer, MMES.

January 17
Roy Thomas Carver,
Health Physics, MMES.

January 18
Lester Lee Barwick,
Industrial Safety.

John Robert Hobbs,
Industrial Hygiene.

January 31
Charmaine Michelle Shannon,
Janitor.

Neal Leon Adams,
Analytical Laboratory.

Ronnie Dale Hicks,
Health Physics.

Steven Jerry Chappelle,
Independent Assessments.

Gary Nicol Milne,
Development Staff (MMES).

February 14
Michael Ray Dunn,
Analytical Laboratory.

Larry Shane Davis,
Environmental Monitoring.

Janet Elizabeth Buckmaster,
Chemist (MMES).

Portsmouth
December 20
Amy L. Alley,
Site Engineering Services (MMES).

Audrey R. Clausing,
ESH Analytical Services.

January 3
William R. Youngblut,
Site Manager's Division (MMES).

Sharron A. Adkins,
Administrative Services (MMES).

James L. Roberts,
Quality and Compliance (MMES).

Gary D. Conner,
Waste Operations, (MMES).

Stephen A. Turner,
Safety and Health (MMES).

Lori A. Lipscomb,
ER Program Management (MMES).

Dean L. Roberts,
Environmental Management (MMES).

Dianne N. Bragdon,
Planning and Control (MMES).

Marcus T. Whitt,
Computing Operations.

Rachel K. Powell,
ESH Analytical Services.

Richard Williams,
Utilities Shift Operations.

Cecil W. Yelley,
Power Operations Maintenance.

Bradley A. Franklin Jr.,
Integrated Planning and Scheduling.

January 17
Russell A. House,
Waste Management Division
Administration (MMES).

Danny K. Varney,
Power Operations Maintenance.

January 31
Dianne N. Bragdon,
Planning and Control (MMES).

James C. Powers,
Groundwater Program (MMES).

Kenneth W. Larison,
Financial Services (MMES).

February 14
Richard D. Baldwin,
Waste Facility Management (MMES).

Mike R. Nolfi,
Timothy B. Mitchell,
and Jonathan D. Click,
Custodial.

Jerry L. Colley
and Anthony A. Couser,
Laundry Operations.

February 28
Roger L. Gorres,
Division Administration (MMES).

Jane A. Bays,
Site Manager's Division (MMES).

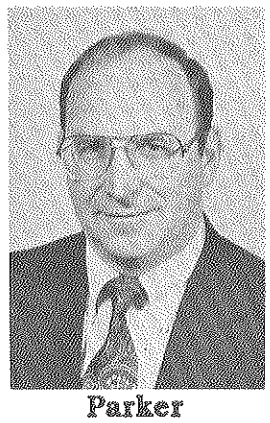
Charles E. Scheibly,
Waste Certification and Disposal
(MMES).

Eric E. Montgomery,
Custodial.

Gary W. Brigner,
Garage.

Meet the MMUS Controller's Office

With the formation of Martin Marietta Utility Services, Inc., a controller's organization was established. This organization is responsible for all expenditures and financial reporting for the entire corporation. Meet the members of this organization:

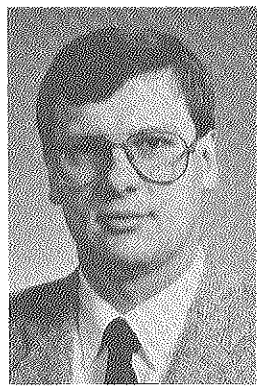

Parker

Ronald E. Parker is the Controller. He reports to David L. Stansberry, Director of Business Operations for MMUS.

Parker came to the Portsmouth plant as a member of the Administrative Squadron in July 1969. In September 1969, he became a Cost Accountant. He became an Accountant at the plant in August 1973 and a Staff Accountant in May 1975. In April 1980, he was promoted to Supervisor of the Accounting Department. In July 1985, he was promoted to Supervisor of the Finance Subdivision. He was promoted to Manager, Uranium Enrichment Financial Services in April 1990.

Parker received a bachelor's degree in business administration from Morehead State University in 1969. An ordained minister, he serves as Pastor of Hamilton Glades Freewill Baptist Church.

Parker and his wife, Donna, live near Sciotoville. They have two grown children, Amy and Shane.

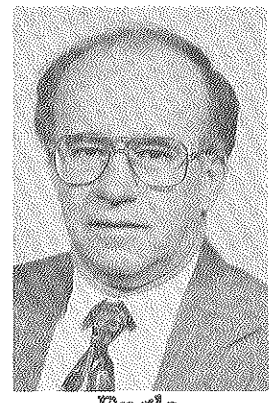

Yates

Rusty Yates is Manager of Payroll. He reports to Parker.

Yates came to the Portsmouth plant in November 1984 as an Accountant. In January 1988, he became a Staff Accountant. He was promoted to Department Head of Payroll in December 1989.

Yates received a bachelor's degree in accounting from Wilmington College in 1982. He is a member of Lucasville's Kiwanis Club and the American Payroll Association. He also serves as Treasurer of the Valley Youth Athletic Parks Board.

Yates and his wife, Robyn, live in Lucasville. They have three sons, Evan, Bryce, and Blake.


Engle

Ed Engle serves as Manager, General Accounting. He also reports to Parker.

Engle came to the Portsmouth plant in October 1983 as an Accountant. He was promoted to Department Head, Accounting, in May 1990.

Engle received a bachelor of science in business from Marietta College in 1965. His previous accounting and auditing experience was with the U.S. General Accounting Office in Cincinnati, Ernst and Young CPAs in Cincinnati, Williams Manufacturing Company, and the Ironton Coke Corporation.

Engle serves as Treasurer of the Wheelersburg United Methodist Church, and he is a member of the Ohio Society of CPAs.

He and his wife, Cathy, live in Wheelersburg. They have two daughters, Erica and Emily.

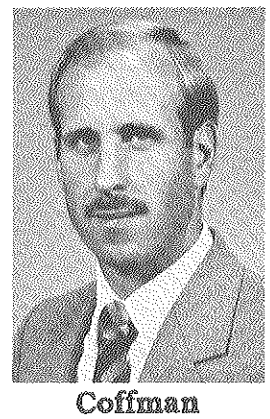

Slifko-Moore

Cindy Slifko-Moore is Manager, Taxes. She also reports to Parker.

Slifko-Moore came to the Portsmouth plant in November 1992 as an Accountant, working on the QUEST project. She previously served as a Financial Analyst and Onsite Systems Manager for the Colgate Palmolive Company, and as Senior in Charge at Rea & Associates.

She holds a bachelor of science in accounting from The Pennsylvania State University as well as a CPA certificate.

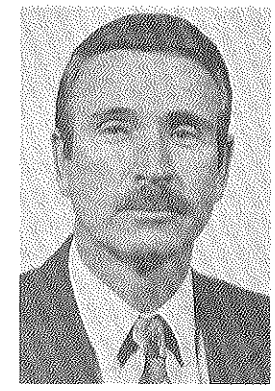
Slifko-Moore, and her husband, Michael, live in Jackson.


Coffman

Scott A. Coffman is Manager, Accounts Payable. He also reports to Parker.

Coffman came to the Portsmouth plant in October 1974 as a Cost Accountant. He became an Accountant in October 1976 and a Staff Accountant in February 1979. He was promoted to Senior Accountant in March 1990, and then to Department Head, Accounts Payable, in July 1991.

Coffman received a bachelor's degree in business administration from Ohio University in 1974. He and his wife, Pam, live in Wellston. They have two children, Kevin and Kristin.


Roberson

Dan Roberson is Manager, Banking and Cash Management. He also reports to Parker.

Roberson came to the Portsmouth plant in August 1967 as an Administrative Squad Trainee. He became a Programmer in March 1968 and then a Senior Systems Analyst in November 1972. He was promoted to Department Head, Cashiers and Benefit Plans, in August 1977. He had been a Computing Specialist for UE Finance since April 1992 until this latest promotion.

Roberson received a bachelor of science degree in business administration from the University of Kentucky in 1965.

He and his wife, Mona, live in Minford. They have three grown children, Jared, Jason, and Angela.

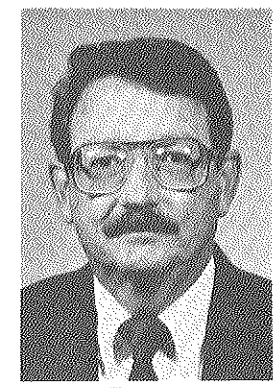
Women's history

(Continued from page 8)

cialist on the graduate faculty of the Department of Health, Physical Education and Recreation, and a self-termed "health educator," O'Brien has had articles published in many health-related publications. She lectures at schools and before professional organizations nationwide. O'Brien has also appeared on 25 different television stations and on such nationally syndicated programs as PM Magazine. Her talk is titled "Envisioning Greatness: Winning the Olympics in Your Future." It is based on her experience, research and work with three Olympic coaches. Principles of having fun, staying motivated and developing high achievement are included.

Women's Awareness 1994 committee members include: Janice Winder and Jean Stokes, Co-Chairpersons, Toni Edwards, April Fisk, Tonya Griffith, Miriam Miller and Linda Pahl.

New appointments at Portsmouth


Casto

Steve Casto has been named Cascade Maintenance Manager at Portsmouth. He reports to Jeff Hedges, Division Manager, Cascade Operations.

Casto came to the Portsmouth plant in March 1991 as a Quality Assurance Specialist. He became Department Head, Quality Assurance, in July 1991. In October 1992, he moved to the General Plant Services Division as a Production Staff Consultant. In April 1993, he became the Deputy Division Manager for that division.

Just before coming to Portsmouth, Casto retired from the U.S. Navy after a 25-year career in which he acquired more than 15 years of experience in the performance of maintenance on nuclear and non-nuclear systems. He served as Nuclear Repair Officer at Pearl Harbor Naval Shipyard and as a Production Maintenance Assistant on board a naval repair ship.

Casto received numerous honors and awards during his naval career. His last Navy assignment was as Quality Assurance Officer at the east coast Trident Submarine Refit Facility where he was responsible for the development and implementation of the Quality Assurance Program for that facility.

Casto graduated from the DeVry Technical Institute at Kansas City in 1963 with an associate degree in electronics engineering technology.

A member of the American Society for Quality Control, he is an ASQC Certified Quality Auditor. He is also a member of the Retired Officers Association and the American Legion.

Casto and his wife, Carol, live in Chillicothe. He has two children, Nicholas and Jennifer.


Conkel

Mark Conkel has been named Manager of Toll Enrichment Planning and Analysis, at Portsmouth. He reports to Dale Allen,

(Continued on page 10)

New appointments at Portsmouth

(Continued from page 9)

Plant Manager.

Conkel came to the Portsmouth plant in August 1974 as a Chemical Operator. He became Foreman, Chemical Operations, in April 1977. He then worked for four years in the Gas Centrifuge Enrichment Plant (GCEP) organization before becoming Technologist, Technical Division Staff, in February 1968. He became a General Foreman for Chemical Operations in July 1986 and then a General Foreman in Uranium Materials Handling in June 1987. In October 1990, Conkel was promoted to Department Head, Uranium Materials Handling.

Conkel received a bachelor's degree in government and education from Otterbein College in 1972.

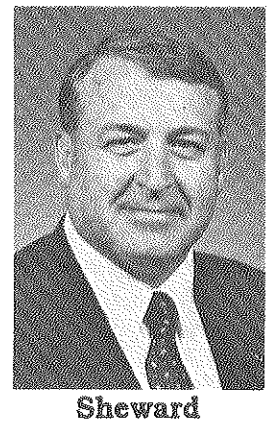
He and his wife, Frances, live in Lucasville. They have three children, Ryan, Amanda and Craig.

Fout

Sandra L. Fout has been named Division Manager, Environmental and Waste Management, at Portsmouth. She reports to Dale Allen, Plant Manager.

Fout came to the Portsmouth plant in June 1979 as a Metallurgist. In September 1984, she became a Scientist. She was promoted to Senior Engineer in October 1987 and later became Supervisor, Engineering, in February 1990. In March 1990, she became an Engineering Department Head. In August 1992, she was promoted to Department Superintendent of Design Engineering. She was promoted to Deputy Division Manager, Technical Operations, in December 1992.

Fout was graduated in 1979 with a bachelor of science degree in metallurgical engineering from the University of Pittsburgh.



Sheward

Buck Sheward has been named Division Manager, Safety and Health, at Portsmouth. He reports to Dale Allen, Plant Manager.

Sheward came to the Portsmouth plant in April 1976 as a Maintenance Foreman. He became a Maintenance Coordinator in February 1977 and was promoted to Supervisor, Maintenance Services, in May 1978. He became Supervisor, Utilities Maintenance, in April 1983. He was promoted to Superintendent, Uranium Operations, in October 1983 and became Superintendent, Security, in July 1985.

In August 1989, he was selected as one of four special Program Managers and became responsible for polychlorinated biphenyls (PCB) compliance programs. In April 1990, he was promoted to Division Manager, Environmental, Safety and Health Division. He transferred to the Environmental and Waste Management Division as Manager in May 1992.

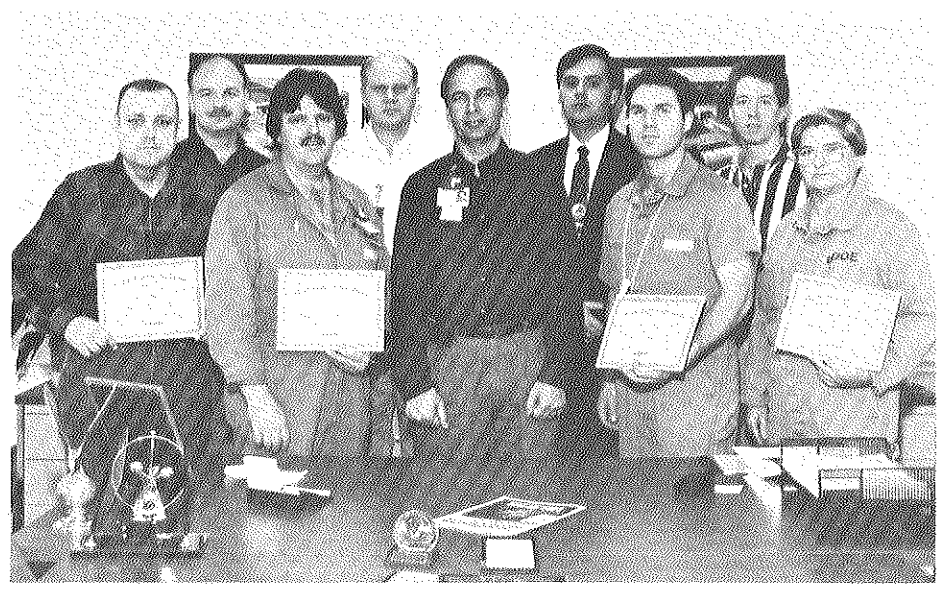
Sheward served from 1960 through 1972 in the U.S. Air Force, where he attained the rank of Captain and received several medals and awards.

He was graduated from the U.S. Air Force Academy in 1964 with a bachelor's degree in military science, as a distinguished graduate from the Air University in Alabama in 1971, where he attended Squadron Officers' School, and with a master of business administration degree from Capital University in 1981.

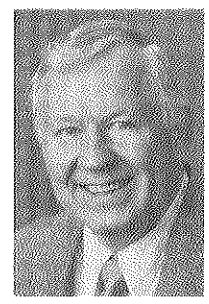
He and his wife, Ann, live in Jackson. They have two daughters, Heather and Bethany.

Team of the Month

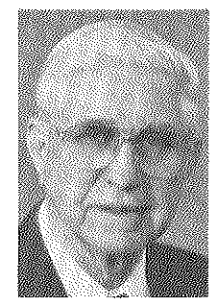
At right, the Condensor Leak Check Crew was named "Team of the Month" at Paducah in February. Headed by Sherrill Gunn, C-335 Operations, the team is charged with reducing losses of CFC-114, the refrigerant that removes excess heat from the enrichment process. The crew assumed ownership of coolant losses, implemented new leak detection techniques and turned themselves into leak detection experts. They accepted the challenge of reducing coolant losses, even though most of their work takes place in areas that are extremely hot, often reaching 125 to 130 degrees. Since the team was formed in March 1993, their work has been responsible for saving more than $100,000 by reducing coolant losses. Team members include: Chris Blewett (Technical Services); Betty Rushing, Kerry Smith and Don Wade (Cascade Operations). Also shown are Steve Polston, Plant Manager; Kelly Stratmeyer and Dale Mittendorf, Cascade area supervisors; and Steve Penrod, Cascade Operations Division Manager.



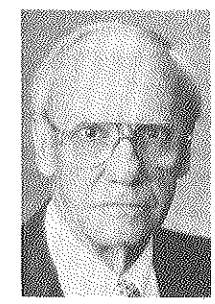
Retirees



Ashburn



Howell



Wilkerson

Wolfe

Paducah

Charles L. Ashburn, High Voltage Switchyards and Distribution System, Chemical, Utilities and Power Division, after 42 years of service.

Harold Howell, Electrical and Instrument Shop, General Plant Services Division, after 41 years of service.

James Wilkerson, C-333 Operations, Cascade Operations Division, after 36 years of service.

Garvalene Wolfe, Cashier and Travel Section, Accounting Department, Business Management Division, after 25 years of service.

Portsmouth

John O. Warner, Portsmouth, Centrifuge Field Mechanic (GCEP), after more than 27 years of service.

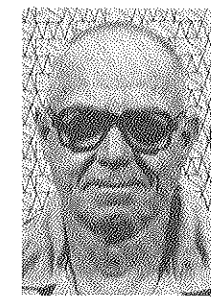
James P. Spriggs, Lucasville, Senior Engineer (Nuclear Safety), after 39 years of service.

Bruce R. Lindsay, Waverly, Mechanic (GCEP), after more than 39 years of service.

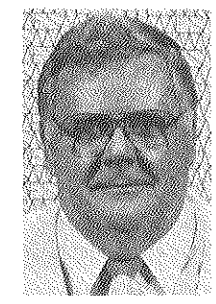
Vancil F. Reed, Minford, Facility Coordinator (GPS Mechanical Engineering), after more than 25 years of service.

Charles H. Crabtree, Oak Hill, Security Specialist (Security), after more than 39 years of service.

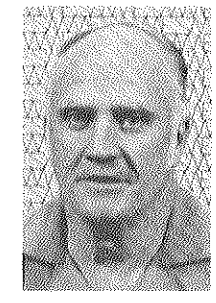
Barbara A. Cooley, Edgewater, Fla., Manager Compensation (Compensation Administration), after more than 39 years of service.



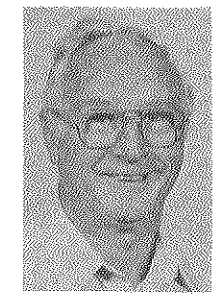
Warner



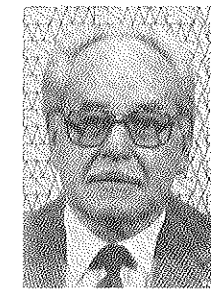
Spriggs



Lindsay



Reed



Crabtree

Cooley