

Energy Systems at Portsmouth

A Monthly Newspaper for Portsmouth Gaseous Diffusion Plant Employees of Martin Marietta Energy Systems, Inc.

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Hopkins brings President's Forum to plantsite

"If we will continue to come to work every day, looking for ways to continually improve everything that we do, showing the people with whom we work every day the appropriate respect, trust, giving them the dignity that they deserve, if we will all be energetic and enthusiastic, we'll all feel a lot better about the jobs we have here, and what we have to do day by day. And if we operate that way, I firmly believe that we are ensuring our future."

These words were spoken by Clyde Hopkins, President of Martin Marietta Energy Systems, at Portsmouth's President's Forum on Feb. 11 in the X-1000 Cafeteria. The focus of the forum was "Striving for Excellence: Our People Make the Difference." Approximately 250 employees attended the forum, which also included a question-and-answer session.

Opening Remarks

Clyde Hopkins

Hopkins began the program with Energy Systems highlights from 1992. He stressed that training is needed to help employees learn all the requirements of the Energy Policy Act of 1992 so that Martin Marietta can be in a position to implement the requirements of this new act. In addition, he feels it is important to respond quickly to health and safety concerns.

Hopkins listed good examples of team-

work at Portsmouth in 1992. He congratulated those involved with converting the X-7725 into a waste storage facility, a project that was completed ahead of schedule and approximately \$6 million under budget.

Hopkins also complimented those at Portsmouth who organized and worked during the OSHA Weekends. "I think it's a great idea, and you're beginning to solve these problems...better than anyone else in the company," he said.

In addition, Hopkins applauded Ralph Donnelly and Wendy Fields for the recent restructuring of the organization and its emphasis on ownership and encouragement to employees in accomplishing jobs. "This new restructuring will bring new emphasis to production and other activities on site," he said.

Hopkins also mentioned the "tremendous team effort" during the recent X-333 incident (see story on page 2). "Tremendous things can be accomplished when we have teams coming together to do good things," he said.

Wendy Fields

Vice President for Uranium Enrichment Update on Uranium Enrichment

Fields provided an update on Uranium Enrichment activities. He stressed that employees need to re-look at our vision--

to be recognized as the preferred, highest quality, lowest cost producer of enriched uranium and services in the world. He emphasized that this vision will not be reached for four to five years.

"We've got to change. We've got to find a better way to do business every day we come to work," Fields said.

We will realize our vision has been reached, Fields said, when not just our customers are satisfied, but when our competitors acknowledge us as the company to beat.

Fields highlighted 1992 accomplishments, beginning with the improvement of customer relations. "We listened to what they (the customers) had to say, and we reacted to those statements," he said.

In addition, he listed the "award fee turnaround" that took place, referring to the UE rating of 86.3 (Good) for the second half of Fiscal Year 1992. This award fee rating was the highest grade UE performance has received for any of the seven periods since the Paducah and Portsmouth facilities were placed under one contract in September 1989.

The United States Enrichment Corporation (USEC) legislation as well as product delivery were also 1992 accomplishments. "You all did your job, you did it perfectly and on time," he stated.

Fields also covered details relating to USEC. Under the new corporation, which



Hopkins

takes over on July 1, 1993, facilities and plant equipment will be leased from the Department of Energy (DOE). DOE will also be responsible for past waste. Regulation will be by the Nuclear Regulatory Commission (NRC) and the Occupational Safety and Health Administration (OSHA), so "we'll have to think differently," Fields said.

(Continued on page 6)

Joe Clark is speaker for Black History Month



Joe Clark signs an autograph for Doy McCrary (CUP Maintenance Support) while Lynn Calvert (Safeguards, Security and Emergency Services) looks on.

"No man or woman is free who is afraid to speak the truth as he or she knows it," said Joe Clark.

And he definitely spoke the truth as he knew it at Martin Marietta's celebration of Black History Month on Feb. 22. The theme of the program was "Living the Dream, To Let Freedom Ring, Building Bridges of Understanding."

Clark, whose highly controversial tenure as Principal of East Side High School catapulted him to national prominence, is the author of "Laying Down the Law," published in 1989, as well as several feature articles in such national publications as Ebony.

As set forth in his book, Clark developed theories of urban education based upon his experiences at East Side High, a public high school where extreme acts of violence, despair and degradation were commonplace. The Warner Brothers movie, "Lean on Me,"

focuses on the approaches Clark took to revitalize this school. While Clark was principal, the school's attendance, academic achievement, discipline and decorum so dramatically improved that he attracted national attention. Clark left the school by choice after the movie's release.

Clark is often asked about the baseball bat that he was famous for carrying during his time at East High. He was pictured on the cover of Time magazine, holding the bat. He said that people ask him, "How many souls have you pummeled down into the ground with your baseball bat?"

"Let's face it," Clark said. "These kids have AK's, Uzi's, bombs...they would blow [me]...to smithereens."

What does the baseball bat mean? "Kids, it's your turn at bat. What are you going to do? Strike out or hit a homerun?" he asked.

(Continued on page 2)



Teamwork saves 13 cells

On Thursday, Feb. 4, Process Operator Bob Beaumont discovered a leak in a recirculating cooling water (RCW) line in the X-333 Building. To isolate and drain this line would have required at least a 16-hour outage of 13 "000" cells, which would have resulted in a lost production cost of approximately \$57,000.

X-333 personnel immediately started planning how to fix this leak without an outage. The job was further complicated by the location of the leak, near the building ceiling. Lifts could not be used due to housings and catwalks being in the way. Scaffolding was set up, and the afternoon mechanical maintenance shift began repairs under the direction of Supervisor Carl Houser who reports to Bill Develin, Department Manager, Cascade Operations.

The badly corroded pipe broke off while being worked on, but the maintenance crew had planned for this possibility. They had engineered and manufactured a cap to go over the leak, and they also drove a wooden plug into the breach.

"It was like standing under a fire hose," Houser said of the leak, which consisted of 80 pounds of pressure pouring through a 1 1/2-inch RCW line. Repairs were then completed as the afternoon shift worked overtime through the night, and the cell outage was prevented.

Credit for handling this leak goes to the maintenance and operations personnel in the X-333. Support was provided by the Safety and Civil Engineering departments who provided pre-approvals as the work progressed. The actual work, however, was performed by Houser and his crew shown above with Jim Morgan, Deputy Manager, Cascade Operations. They included (front) Warren Bobo, Paul Powell, Jerry Swords, Jim Davis, Ed Coleman, (back) Morgan, Bill Hardin, Roger Hall, Dave Burt, and Houser. Not pictured are Larry McCall, Ed Malone, and Paul Lytten.

Coriell inducted into Who's Who



Coriell

LaDonna Coriell, a Human Resources Representative for Personnel and Labor Relations, has been inducted into the 1993-94 Who's Who Registry of Global Business Leaders. Memberships are limited to those individuals who have demonstrated outstanding leadership and achievements in their occupation, industry or profession.

Coriell was graduated in 1985 from Murray State University in Murray, Ky., with a bachelor of science degree in criminal justice.

She came to Portsmouth in June 1988 as a Security Inspector. In July 1989, she became an Administrative Assistant in the Security Department. In September 1990, she moved to Training Services as a Human Resources Representative. In July 1991, she began serving in the same capacity for the Organizational Development Department. She has served as the plant's Salary Complaint Handler since April 1992.

Coriell serves as Co-chair of the Values Council and Coordinator of Portsmouth's section of the Energy Systems Communication Survey, which takes place every three years.

She lives in Lucasville with her husband, Rick, and their son, Tyler. She also has a stepson, Brandon.

Joe Clark serves as speaker at Black History Month program

(Continued from page 1)

Some of his disciplinary methods could be considered slightly unorthodox, thus earning him the nickname of "Crazy Joe." He related the story of how he handled one of his students, named Sam, who sold crack cocaine. He had expelled Sam from school, and Sam begged him to let him re-enter. Clark took Sam to the roof of the school and encouraged him to jump to his death, but Sam decided he wanted to live.

"I wanted the young man to look down there and make a decision — whether he wanted to live or die," Clark said. "Crack kills too, it's just a little bit slower."

Clark himself came close to death in 1991 after he experienced open heart surgery. However, he said, when the death angel knocked at his door, he replied, "Leave your beeper number. Don't call me, I'll call you. I have too much work to do."

"I decided one day I was gonna' take life on," Clark said. "There is no sense in me holding a pity party for myself and being an oversensitive crybaby. Ninety-five percent of the people don't care, 90 percent are glad it's you, and the rest are saying, 'Get away from me before they come back and get me too.'"

"Get up off your rusty dusty and do it for yourself," Clark continued. "Ain't nobody going to do for you what God has given you the strength to do for yourself."

In regard to Black History Month, Clark stated that he is "not one who necessarily goes along with the Black History Month Syndrome. How can you tell me to think about myself for one month? I think of myself every day."

"Something is wrong with the way history is being taught," he said. "You would think blacks are roaming around in the jungle with a bone in their nose. I was

never taught anything about me. I was taught about Dick, Jane and Spot."

He urged that "it is very important that we recognize in America that we're going to have to live together as brothers and sisters. I ain't going nowhere, and you ain't going nowhere. Either we live together as brothers and sisters, or we're going to perish as fools."

Clark offered ideas for what people should plant in their own lives: five rows of peas--perseverance, promptitude, preparedness, politeness, and "put a row of prayer in it;" three rows of squash--squash that criticism, squash that indifference, and squash that gossip; five rows of lettuce--let us be faithful to one another, let us be unselfish, let us be loyal, loving, and trustful of one another; three rows of turnips--turn up for church, turn up with a new idea, and turn up with the determination to make tomorrow better than today.

Jeanette Langford, EEO/AA Program Manager, served as Mistress of Ceremonies for the program. Melonie Valentine, Department Head of Employment and Employee Records, introduced Clark while Sidney West (Management Information Systems) provided the entertainment. West sang "You'll Never Walk Alone" and performed sign language to "The Lord's Prayer."

Clark spoke at a Black Awareness Month presentation at Shawnee State University later that evening.

He has appeared on nationally syndicated talk shows including "The Phil Donahue Show," "Crossfire with Larry King," "Nightline with Ted Koppel," "A Current Affair," "Sixty Minutes," "Good Morning America," and many local television programs. He has also been featured in several major news magazines.

MARTIN MARIETTA

Energy Systems at Portsmouth

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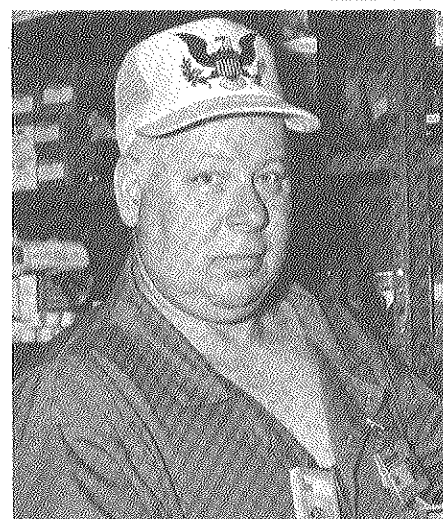
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Published monthly for Energy Systems employees at Portsmouth such as Robert Cline of the Power Operations Department in the Chemical, Utilities and Power Operations Division

Stockham named Dept. Superintendent

Joe Stockham has been permanently named Department Superintendent, Shift and Emergency Management, after serving as Acting Department Superintendent since August 1992. He reports to Lynn Calvert, Division Manager, Safeguards, Security and Emergency Services.

Stockham came to the Portsmouth plant in October 1969 as a member of the Apprentice Electrician Program. In March 1974, he was promoted to Foreman, Electrical Maintenance, and Coordinator of the Apprentice Program. In January 1981, he became a Maintenance Planner. In March 1983, he became Foreman, Maintenance, at the Gas Centrifuge Enrichment Plant. In July 1985, he returned to the gaseous diffusion plant as Foreman, Electrical Maintenance, in the Switchyards and Test Shop. In April 1989, he became Foreman and Training Coordinator, Power Operations. In April 1990, he was promoted to Plant Shift Superintendent in the Plant Control Facility.

Stockham previously worked as a Central Office (telephone) Installer for Western Electric Company and as an Apprentice Electrician for the Norfolk & Western Railroad. In addition, he served one year as a Seaman with the U.S. Navy.

Stockham was graduated from Portsmouth Interstate Business College in 1968 with an associate degree in business. He has also taken electronics courses at the Ohio College of Applied Science. In addition, he has taken electromagnetic engineering courses at Shawnee/Scioto Technical College.

Stockham is an active member of the American Legion, Masonic Lodge 465, and is a Valley of Columbus Scottish Rite 32nd Degree Mason. He is also Vice President of the Minford Local School Board. He has previously been involved with the Minford Athletic Boosters, Minford Little League, and the Scioto County Soccer League. He also is a past Treasurer of the Goodyear Atomic Top Ten Club.

In January, Stockham received the President's Award for Continuous Improvement for his work on the Contingency Planning Committee.

He lives in Minford with his wife, Sharon. They have three sons, Jody, Chad, and Ryan.

New Arrivals

Daughter, Katelyn Marie Cosenza, Jan. 14, to Anita K. Messer (Industrial Hygiene).

Son, Joshua David, Jan. 27, to Rebecca Irwin (Health Physics).

Daughter, Audrey Lynn, Jan. 28, to Gregory and Jovanna Johnson. Gregory works in Decontamination Services.



Stockham



Valentine



Blaine



Barnes

Valentine heads Employment

Melonie Valentine has been named Department Head, Employment and Employee Records. She reports to Wayne McLaughlin, Director, Human Resources.

She came to the Portsmouth plant in April 1968 as a Clerk in the Plant Training Organization. In July 1971, she became a Drafter in Mechanical Engineering, and in February 1979, she was promoted to Supervisor, Uranium Materials Handling. In February 1981, she became an Operations Systems Technologist in Production Engineering and Services. She transferred to the Gas Centrifuge Enrichment Plant's (GCEP) Technical Services Division in June 1984 as an Administrative Specialist. Beginning in December 1987, she worked as a Trainer in the Operations Training Department, and she briefly returned to the Production Engineering and Services organization in February 1990.

In June 1990, Valentine was promoted to Senior Human Resources Specialist where she served as the plant's Organization Development Specialist and managed a department which coordinated employee communications, the Values Program, ethics investigations, salary complaints, team-building sessions and other initiatives designed to assist organizational development and change.

Valentine received a bachelor of business administration degree in 1984 and a master of business administration degree in 1991 from Ohio University.

In addition to her previous work at the plant, she worked from 1986 through 1987 as an Admissions Representative for Shawnee State University performing

recruiting throughout the state of Ohio and coordinating community outreach programs for minority and disadvantaged students.

Valentine lives in Portsmouth with her husband, Richard. She has a daughter, Courtney, and two stepchildren, Tracie and Matthew.

New Employees

February 8

Debra K. Jones, Library and Distribution Services.

Paul S. Bowen, Health Physics.

February 15

James B. Bond, Mass Spectrometry.

William J. Lawler and JoAnn Cashman, Environmental and Waste Management Technical Support.

Charles L. Gallagher, Procedures.

Thomas A. Martin Jr., Environmental Restoration Administrative Services.

Wayne F. Wilbur, Warren G. Shoemaker, William Hatfield, Ray A. McGinnis, and Bryon L. Williams, Cascade Training.

Charles W. Bell, Uranium Enrichment Accounting and Financial Services.

Dana R. Clausing, Employment.

February 22

Stephen D. Howie, Procedures.

March 1

Timothy J. Ledford, Squadron and Coops.

David C. Pentecost, Waste Policy.

March 8

Amy S. Woodram, Human Resources.

Dorothy E. Shoemaker, Chemical Operations.

Susan R. Wiseman, Human Resources.

Blaine is promoted

Vern L. Blaine has been promoted to Contracts Administrator. He reports to John Henricks, Division Manager, Business Management.

Blaine came to Portsmouth as a Cost Accountant for the Payroll Department in June 1975. In January 1979, he became a Property Analyst in the Property Department. He became an Accountant in the same department in May 1981. In May 1983, he moved to the Gas Centrifuge Enrichment Plant (GCEP) as a Production Planner. He returned to the gaseous diffusion plant in July 1985 as an Accountant with Nuclear Materials Control and Accountability. In April 1988, he was promoted to Sr. Staff Auditor in the Internal Audit Department. He moved to Quality Assurance in October 1990 as a Sr. Staff Auditor.

Blaine was graduated from Marshall University in 1974 with a bachelor of business administration degree in finance. In 1981, he received an associate degree in aircraft maintenance technology from the U.S. Air Force Community College in Gunther, Ala. He has also completed graduate work at Morehead University.

Blaine served as a Staff Sergeant (E-5) in the U.S. Air Force from December 1967 to December 1971. From December 1980 to the present, he has served as a Sr. Master Sgt. (E-8) for the U.S. Air Force Reserves. He is the Organizational Maintenance Branch Chief for the 401st Combat Logistic Support Squadron at Wright Patterson Air Force Base in Dayton.

Blaine is a member of the Institute of Nuclear Materials Management Association as well as the American Society for Quality Control. In June 1992, he was certified as a Lead Auditor by the Energy Systems Auditor Examiner.

Blaine lives in Lucasville with his wife, Cindy. He has two sons, James and Matthew.

Barnes heads Budgets

Brian N. Barnes has been promoted to Department Head, Budgets. He reports to John Henricks, Division Manager of Business Management.

Barnes came to the Portsmouth plant in September 1976 as an Administrative Specialist in Engineering Services. In February 1980, he was promoted to Section Head, Engineering Services. He was promoted to Department Head in March 1990. In October 1991, he became a staff member of the Engineering Division Manager's Office. In November 1992, he became a Technical Information Staff Member in that same office.

Barnes was graduated from the University of Cincinnati in 1974 with a bachelor's degree in business administration.

He and his wife, Lynda, live in Chillicothe. He has three children, Beth, Nathan, and Katie.

Blanton named Dept. Head



Blanton

Gwen Blanton has been named Department Head, Human Resources Management Systems and Training Support. She reports to Wayne McLaughlin, Director, Human Resources.

Blanton came to the plant in January 1977. She began her Human Resources career in the Compensation Department in August 1980 progressing to Industrial Relations Staff Trainee in November 1981. In November 1982, she became a Compensation Specialist. She joined the Human Resources Director's Staff in August 1989 as a Sr. Human Resources Representative. In March 1991, she became a Sr. Human Resources Specialist for Human Resources Management Systems.

In November 1989, Blanton earned the Certified Compensation Professional designation through the American Compensation Association and served as a member of that organization for three years. She is currently a member of the Tri-State Society for Human Resources Management and has completed business management courses at Shawnee State University.

Blanton lives in Waverly with her husband, Mike. They have a daughter, Shelley, who attends Ohio State University.

Engineering donation

During Christmas 1992, the Engineering Division — now part of Technical Operations — contributed \$1,700 to the Children's Hospital's "Greetings From Children's" program. Engineering has made an annual contribution to the hospital for the past 28 years. The 1992 contributions totaled \$1,700. The employees donate this money each year instead of exchanging cards and/or gifts with each other. Donations were as follows: \$404 in individual contributions, \$104 from the Division Manager's Coffee Fund, and \$1,192 from the Electrical, Instrument, and Computer Engineering's Coffee Fund.

A letter of thanks was received in mid-January from coordinators of the program. "On behalf of the over 270,000 children and their families served yearly by Children's Hospital...we thank you," they said.



Officials of the Department of Energy, Martin Marietta, Ohio Environmental Protection Agency, Pike County, and the Environmental Advisory Committee participate in the ribbon-cutting ceremony for the new environmental information center.

DOE opens information center

by Sandy Childers

The U.S. Department of Energy has opened an Environmental Information Center in Waverly to provide a centralized location for area residents to review documentation on the cleanup program being conducted at the plant.

Located in the new mini-mall between the Subway shop and Ohio Valley Bank at 505 West Emmitt Avenue, Suite 3, the information center is staffed fulltime and open during normal business hours or by appointment. Included in the environmental information center are such documents as the site investigation reports, work plans for the corrective measures studies, descriptions of current conditions, videos of public meetings and workshops, as well as news clippings and public fact sheets on the plant's environmental restoration program.

A ribbon-cutting ceremony was conducted on February 25 in front of the new information center with local officials and Department of Energy, Martin Marietta and Ohio Environmental Protection Agency representatives. A public open house followed the ceremony.

"These documents were previously kept at the Pike County Library. The library has been very gracious in providing us space but we realized we could easily wear out our welcome with the tremendous number of volumes of documents that would be generated before the cleanup is completed," said Richard W. Meehan, DOE's site environmental restoration manager for the plant.

Meehan said that the documents have been made available to the general public for review and comment as required by environmental regulations governing federal facilities. "The intent is to encourage communities near these facilities to participate in the decisions affecting their areas."

"We believe the Environmental Information Center will provide a comfortable

setting for members of the public to come in, read the reports, and reproduce any documents they are interested in. By giving people an opportunity to stay informed on the various projects being considered or undertaken, we hope to see more residents become involved in helping us to formulate cleanup decisions," Meehan stated.

The 1,000-square foot office space includes a large reading area and a small conference room that will be used for small group meetings to discuss current environmental projects or specific topics of interest from individuals.

Janie Croswait, who previously worked at the public information center for the Department of Energy's Fernald facility near Cincinnati, is the librarian for the information center. Croswait and her husband, Mike, recently relocated to the Lake White area.

The Environmental Information Center will be open from 10 a.m. to 4 p.m. Monday, Tuesday, Wednesday, and Friday and from 9 a.m. to 12 noon on Thursday and Saturday or by appointment by calling the center at 947-5093.

OR reunion is planned

As a part of the 50th Anniversary Celebration of Oak Ridge, a reunion of former officers and civilian personnel of the Manhattan Engineer District, assigned to Oak Ridge, is planned for Sept. 17-19, 1993.

Charles A. Keller is Chairman of the reunion and is asking that personnel assigned to Oak Ridge during the period 1943-1947 contact him as soon as possible, indicating their interest in attending. Spouses are invited.

Please send replies to Charles A. Keller, 106 Norwood Lane, Oak Ridge, TN 37830. He can be contacted by phone at 615-482-2578.

Larson heads Procedures



Larson

Rick Larson has been promoted to Department Head, Procedures. He reports to Robert L. Clark, Division Manager, Management Systems and Compliance.

Larson came to the Portsmouth plant in July 1990 as a Senior Procedures Specialist for the Maintenance Division. During that first year, he worked with a task team to develop a site wide procedures writers guide. In July 1991, he became a Procedure Systems Specialist for the newly formed Procedures System Management Department. In December 1991, he was promoted to Section Head, Procedures System Management.

In January 1990, Larson retired as a Master Chief Petty Officer from the U.S. Navy after more than 22 years of service. At that time, he was the Assistant Division Officer in Nuclear Repair, on board the repair ship USS Frank Cable AS-34 in Charleston, S.C.

While in the Navy, he twice served as an instructor in nuclear and steam propulsion, radiological controls and protection, and radioactive chemistry analysis. In 1979, he received the award of Master Training Specialist for his instructing capabilities.

Larson won several other awards as well including three Navy achievement medals, a Navy Expeditionary medal, a Presidential Unit Citation, a Navy Unit Citation, and a Meritorious Unit Citation. In 1989, he won a Humanitarian Award for assistance to the civilian community after Hurricane Hugo devastated Charleston, S.C.

In addition, Larson received an award from the Navy for his design modification to a diesel engine exhaust system.

In 1979, he received an associate degree in science from the University of South Carolina.

Larson is currently a volunteer fireman and emergency medical technician with the Springfield Township Fire and Rescue Squad.

He and his wife, Kay, live in Chillicothe with their sons, Chad, Richard, and David.

See "The Inside Story"

For those who ever wanted to see the inside of a UF6 cylinder, a new video, "The Inside Story," now gives them the chance.

In January, employees of the Technical Operations Division used a video probe to look inside a full ten-ton Paducah product cylinder. A video probe is a remote camera lens and lighting system on the end of a flexible rubber-coated shaft that has a diameter of approximately 3/8 of an inch. The probe has a built-in light source as well as controls to permit the camera to be moved in any direction.

Keith Banks (Chemical Technology) and Ron Dorning (Technical Operations) conducted the probe on Jan. 7 at the X-705 Annex. They used it to view the internal void volume of the cylinder to determine the geometric configuration of the void space and the solid UF6. The internal void volume is the part of the cylinder that is not filled with material.

At Paducah, the product cylinder is filled with 10 tons of liquid UF6 at 160 degrees. The liquid fills 95 percent of the volume inside the cylinder. The cylinder of hot liquid is then moved away from the filling station and allowed to cool for five days.

During this time, the liquid solidifies, and the resulting solid slowly cools to the outdoor temperature. Since solid UF6 is heavier than liquid UF6, the solid mass fills approximately 60 percent of the cylinder when all the UF6 is solidified. The remaining volume (the internal void volume) is filled with UF6 gas.

After the cooling period, the cylinder is placed in a protective shipping package called a "Paducah Tiger" and loaded onto a truck or railcar for shipment to Portsmouth.

The project was done as part of a renewal of the Safety Analysis Report for Packaging (SARP) for the Paducah Tiger overpack. The overpack is used to ship enriched material from Paducah to Portsmouth.

The question was raised as to how the solid UF6 is distributed inside the cylinder. In a small glass tube, liquid UF6 begins to freeze, or solidify, at 147 degrees. But, scientists have wondered if this is what happens in a 10-ton cylinder.

Imagine that a truck is carrying a full UF6 cylinder packaged in a Paducah Tiger overpack. The truck wrecks as it is crossing a bridge, and the cylinder is knocked off the truck and into the river where it cracks. What is the possibility of a nuclear criticality?

That's what Bob Dyer hoped to find out. Dyer is a General Engineer for the Facility

and Systems Safety Branch at the DOE office in Oak Ridge. Dyer, who worked in the DOE Site Office at Portsmouth from October 1991 to January 1992, encouraged the experiment to take place so the answers could be found.

With the use of a video probe inserted through the cylinder valve, exploration of the void space can take place above the cooled solid. To conduct the experiment, the stem and seat of the cylinder valve was removed and replaced with a five-foot section of a 5/8-inch diameter tubing. The tube had the same outside diameter as the valve stem, so the standard valve packing could be used.

This experiment was done after the cylinder had cooled for 31 days. The most striking thing found was the continuous "snow storm" of UF6 going on inside the cylinder. This was caused by the fact that even after this period of cooling, the 10-ton mass still had not completely cooled to the outside temperature of the cylinder. A small amount of the UF6 was continually being vaporized from the surface of the mass creating a warm gas that rose into the cooler space above. When this newly formed gas was cooled sufficiently, it froze to solid UF6 snowflakes that slowly settled. It was also apparent in the video that the solid UF6 glittered. The points of light were caused by a flat surface on a crystal acting like a mirror and reflecting the light back to the camera.

Also visible in the video was the bare steel of the inner walls and the back side of the fabrication welds.

Since this was the first time the inside of a full cylinder was examined at the Portsmouth site, a number of concerns needed to be addressed. Representatives from five additional divisions contributed to the planning that went into accomplishing this work. They included Cascade Operations; Chemical, Utilities and Power Operations; Safety and Health; Management Systems and Compliance; and Safeguards, Security and Emergency Services.

The success of the video probe experiment is expected to contribute to the approval of the renewal of the Paducah Tiger overpack SARP, thereby resulting in the cost avoidance of new overpacks for the Paducah product cylinders.

More probe experiments with UF6 cylinders were planned for March 23.

Employees who want to borrow "The Inside Story" should contact Public Affairs at Ext. 2863. The video was produced by Bryant Lybrook and Bryan Howell of Information Support.



Portsmouth received the State Chairman's Award from Ohio's Employer Support of the Guard and Reserve Committee on March 2. Shown are Employee Vern Blaine, Lt. Col. Stephen J. Hummel, Plant Manager Ralph Donnelly, and Sgt. First Class Roger Burnett.

MMES receives state award

Martin Marietta Energy Systems has received the State Chairman's Award from Ohio's Employer Support of the Guard and Reserve Committee. Lt. Col. Stephen J. Hummel, Executive Director, presented the award to Plant Manager Ralph Donnelly on March 2 at the plant.

Vern L. Blaine (Contracts Administrator) nominated Martin Marietta for the award. A longtime member of the U.S. Air Force Reserves, he is a Sr. Master Sgt. serving with the 401st Combat Support Logistics Squadron at Wright Patterson Air Force Base.

Blaine nominated Martin Marietta because he has been able to maintain a perfect atten-

dance record during the past 10 years with the reserves due to the company's continued support and understanding of his important role as a Citizen Airman.

Blaine stated that during Operation Desert Storm, management took immediate action to adopt several major improvements to the company's existing military policies and provide support to reservists.

According to William R. Allen, Director of Region 7, Martin Marietta's contribution to the reserve forces clearly stands out. Martin Marietta was chosen over all other employers in a 14-county area in southeastern Ohio.

Fire Services gives mutual aid

On the evening of Feb. 8, members of the Fire Services Department assisted the Beaver Volunteer Fire Department in extinguishing a grain bin fire at the farm of Ronnie Pennington. The farm is located approximately two miles east of Beaver.

Beaver Fire Chief Doc Overly (Computer and Telecommunications Security) contacted the plant's on-duty Shift Superintendent at 6:50 p.m. that evening and requested mutual aid when it was realized that water could not be used due to lack of access.

Jim Pertuset and Pete Gemperline of Fire Services were dispatched to the scene with nine

50-pound bottles of carbon dioxide (CO2) by Shift Captain Al Odle. Picketon Fire Department also provided mutual aid by supplying air bags. The CO2 was bled into the top and bottom of the grain bin, and the fire was extinguished.

The bin contained approximately 8,000 bushels of corn. Due to the assistance provided by Martin Marietta, the loss was minimized to a total of approximately 1,000 bushels.

The plant's fire department is a member of the Pike County Fire Fighters Association. Members of this association are joined in a mutual aid pact where assistance is provided to each other when needed.



Members of the Beaver and MMES Fire Departments pose with Ronnie Pennington. They are (front) Jim Pertuset (Fire Services), Shirley Walter (Engineering Services), Buck Walter (Police), Emery Clark, Paula Cooper, Tim Hall, Dicky Neu, Pennington, Jason Fields, Doc Overly, Pete Gemperline (Fire Services), (back) Tommy Cooper, Ralph "Buzz" Moore, and Walt Tomblin. Shirley and Buck Walter along with Doc Overly are both MMES employees and Beaver volunteers.

Service Milestones

April 1993

20 years — Roy A. Ross, Charles B. Greathouse, Carol G. Crissman, Vicki B. Scott, Larry E. Hart, and Adam J. Forshey.

15 years — Junior D. Hamilton, Ralph E. Lemming, and Dane L. Clark.

10 years — Michael G. Roseberry.

5 years — Mark E. Chandler, Deborah K. Perez, Gerald W. Deatley, Diana K. Jones, William P. Gammon, Dean B. Schamps, and William H. Reep Jr.

Managers give updates at President's Forum

(Continued from page 1)

The UE business unit will be operated by USEC; however, DOE will continue to operate Environmental Restoration and Waste Management activities. "USEC is our new customer," Fields stated, "yet they don't exist yet, so we can't talk to them."

The upcoming year, Fields said, will focus on transition, the reduction of non-compliances and occurrences, safety, cost reduction, project management, and total quality management (TQM).

"None of this will happen unless we come to work every morning and try to make our jobs better, the world better, our neighbors better, our company better. Continuous improvement...that's what TQM really is," he said.

Bob Merriman

Vice President, Environmental Restoration and Waste Management Update on ERWM Programs

Merriman explained that ERWM's budget projections for Fiscal Years 1994 and 1995 are uncertain with the beginning of a new administration. "The country faces a cleanup bill of about a trillion dollars," he said.

He stated that there may be a new effort to prioritize with greater focus on doing work where it can have an immediate and substantial effect on the improvement of human health.

Merriman explained that the ERWM program would like to be known for frugality and cost reduction, flawless execution of assignments, a bias for action, teamwork and innovative partnerships, and technology leadership.

He added that a current goal of Portsmouth is to reach an agreement with the Ohio Environmental Protection Agency (OEPA) on the treatment of Land Disposal Restricted (LDR) mixed waste.

Goals for next year include safety, regulatory compliances, competitiveness (cost control and cost efficiency), UE transition responsibilities, and national centers for environmental technology and waste management.

"We need to have a genuine respect for people—we need to have a genuine respect for the environment," Merriman said.

Dave Taylor

Division Manager, Environmental Restoration Update on Portsmouth ER programs

Environmental Restoration (ER) is a \$54 million program at Portsmouth, as compared to \$14 million in 1990, said Taylor. There have been 104 waste units identified for future cleanup, he added.

The goals of Portsmouth's ER program are to aggressively identify and clean up any areas of contamination; pursue development of treatment technologies;

work with the public and regulators to resolve major issues; and establish a waste management/minimization program.

Sixty percent of every dollar spent in ER this year, Taylor said, is spent on cleanup of a closure site. This includes moving dirt, treating material, treating ground water, and cleaning up the environment.

The plant has been sectorized into four quadrants for environmental study and cleanup. Accomplishments to date have included extensive soil and ground water sampling conducted in three of those quadrants; the closure of three large waste sites under the Resource and Recovery Administration Act (RCRA); cleanup actions under way at four closure locations; the construction and operation of three ground water treatment facilities with a fourth planned; and nearly 8,000 containers of waste relocated to EPA-approved storage buildings.

Taylor discussed the misconceptions that many people have in regard to the term "ground water." "When we talk about ground water contamination, people think about drinking water," Taylor said.

Taylor explained that under the ground surface lies a 20-foot-deep sandy, silty, clay layer that contains a slow moving amount of ground water—which is not drinking water. This layer sits above three different layers of impermeable shale and clay. The first drinking water aquifer is located approximately 80-100 feet below.

Taylor went on to outline the specifics of several ER projects that have been conducted during the past two years. "Our commitment is not to allow contamination offsite," Taylor added.

Where is the ER program going? The site will be completely investigated by late 1994 with the first cleanup alternatives study being completed in 1993, Taylor said. Closures of seven additional waste units will begin in 1993, site-wide air and ecological studies will be conducted in 1993 and 1994, and a demonstration of thermal treatment technology will begin in late 1994, Taylor said.

Ralph Donnelly
Plant Manager

The Portsmouth Challenge

What new challenges does Portsmouth face in the next year or so? "We can't drop any balls that we're now juggling and working with," Donnelly said.

He said that employees cannot ignore production or environmental restoration. But safety has to be number one, he added.

Our two biggest challenges, he noted, are preparing for the transition to USEC and changing the mission of the plant from a combination of high assay material for the nuclear navy and low assay material for commercial power to a plant which is focusing only on low assay, due to the

suspension of highly enriched uranium (HEU) production.

In overcoming these challenges, Donnelly said, "we cannot lose track of our values and TQM. They are the way we will accomplish this transition in a smooth and efficient manner."

"During a time of change, we should be focusing more than ever on a concern for people," Donnelly said. This concern involves the protection of the health and safety of employees and the environment, he said. It also includes achieving the participation and involvement of people. More than 65 empowered work teams now exist on plantsite, he noted.

Another aspect of concern for people includes the promotion of teamwork with all employees and organizational units, the leadership of our unions, and DOE. Donnelly has made a step in this direction by inviting the presidents of both unions to morning management meetings on a continuing basis "so we can have their input to help run this plant more effectively," he said.

"We need to continue to improve our products and our services," Donnelly said. "We need to accept change as an opportunity. If we look at it that way, we can make it work."

Wayne Spetnagel
Department Superintendent
ES&H Analytical Services
A TQM Example

"Like most successes, it started with a problem," said Spetnagel. He was referring to a problem Portsmouth's laboratory once had with sample preparation, causing a sample backlog of around 2,000.

When laboratory personnel benchmarked themselves against other labs in 1991, including some in the commercial sector, they noticed that other companies had a dedicated group of people just to prepare samples for analysis.

In July 1991, Portsmouth organized its own sample preparation team by recruiting two analysts from out of the laboratory. They were located on the second floor of the X-760. Samples would have to be walked back and forth to the X-710, and procedures would have to be developed.

However, Bonnie Stanley and Mary Stewart met the challenge and immediately began meeting with all potential customers. They eventually began taking on preparations from almost all of the departments in the Technical Services division.

In the summer of 1992, Paula Downey was added to this team which now does 95 percent of all preparations for the spectroscopy department and many routine preparations for other departments as well.

Spetnagel meets with the team weekly to discuss problems. "They are teaching me each week what it means to be committed

to people — what it means to delegate a task — what it means to be empowered," Spetnagel said.

Consequently, the sample backlog has been slashed by nearly one-fourth, setting a new standard of excellence for the laboratory. "We're proud of what we've done, and we're excited about what we are going to do," Spetnagel said.

Hopkins followed by stating, "If we could reproduce that a few thousand times in this plant, this would be, by far, the best facility in the entire DOE complex."

Clyde Hopkins
Closing Remarks

Hopkins concluded the forum by discussing the approach to management taken by Jack Welch, CEO of the General Electric Corporation. As detailed in the book, "Control Your Destiny or Someone Else Will," Welch decided to take the "boss element" out of GE. He wanted to encourage people to use their creativity and ingenuity.

Welch and 30 senior executives now make up the corporate executive council that runs GE. They are responsible for hundreds of plants across the country. The team members must put the objective of the whole company over the individual company. Forbes magazine just recently rated GE the most powerful corporation in the nation, Hopkins said.

Also featured at the forum was a videotape titled "Striving for Excellence: Our People Make the Difference" which highlighted Energy Systems accomplishments during 1992. Employees may borrow a copy of this tape by contacting Public Affairs at ext. 2863.

Retirees

Donald W. Murphy, Minford, Production Process Operator (X-333 Building), after more than 38 years of service.

Alphonse E. Roach, Portsmouth, Principal Technologist (Mechanical Engineering), after more than 38 years of service.

Elmer C. Beasley, Lucasville, Engineer Fire Protection II (Fire Services), after more than 38 years of service.

Jesse Skinner Jr., Waverly, Maintenance Mechanic I/C (Mechanical), after more than 28 years of service.

Edward C. Aleshire, Dublin, Electrician I/C (Power Operations Maintenance), after more than 17 years of service.

Daniel D. Adkins, Portsmouth, Staff Engineer (Chemical, Utilities, and Power Operations), after more than 29 years of service.

Plant retirees meet for a luncheon every third Thursday of the month at the Ramada Inn in Portsmouth. Various personnel from plantsite serve as guest speakers, and a newsletter is distributed.



Wayne McLaughlin, Director, Human Resources, presents Employee Flip Young with a \$1,500 award as Paula Hickman, Department Head, Benefit Plans, watches.

Studying hospital bills benefits Connecticut General subscribers

Portsmouth employees do not usually receive \$1,500 checks from the company on their birthday, but Flip Young did — thanks to a hospital auditor.

When Young (Electrical, Instrument and Computer Engineering) was admitted to Ohio State University Hospital in August 1992 for a total knee replacement, she had no idea that the stay would be a profitable one. Young had already undergone 10 prior surgeries to the same knee, and after the total knee replacement was completed, she still could not bend the knee properly.

Consequently, she returned to Ohio State near the end of September for a "manipulation" of the leg. After three hours of failed efforts to numb the correct leg, doctors wheeled her into the operating room, anesthetized her for about four minutes, and then woke her up once the knee had been bent a few times. She did not require additional surgery.

When Young received her hospital bill, she carefully audited it for errors, but both admissions were correct. However, a hospital audit performed later on the bill from the second admission concluded that an additional \$3,000 was owed for charges not previously included.

The auditor had noted that Young had been charged for three hours of anesthesia time and assumed that operating room charges had been omitted from the bill, when she had actually only been in the operating room for a few minutes. When Young received the additional bill, she telephoned the hospital auditor and explained the mistake, and he agreed to correct it.

At the time, Young, who is a subscriber to Connecticut General, was not aware that her insurance company had an award available for catching overbilling errors. "I'm just a stickler for details," she said.

"I was going to make sure the hospital was not going to charge the insurance company more than it owed."

When Connecticut General subscribers discover overbilling errors in their bill from a hospital that is not a Health Partnership member, Martin Marietta awards 50 percent of the savings (less any taxes payable) on any hospital bill up to \$15,000. Hospital bills more than \$15,000 are automatically audited by the insurance company and are not eligible for this award.

"I was just in the right place at the right time," Young said.

Wayne McLaughlin, Director of Human Resources, presented the check to Young on February 12 — her birthday. She plans to use the money to help pay for 1,000 feet of wood fencing to enclose her home and the kennel next door where she breeds Newfoundland dogs.

According to Paula Hickman, Department Head, Benefit Plans, Young is the seventh Portsmouth employee to win this award since the plant switched to Energy Systems benefits in January 1989. One employee received \$1,090 in 1990. Other awards have been much smaller.

The award is not available for members of Health Maintenance Organizations (HMOs).

If you are a Connecticut General subscriber, you can help prevent overpayment to the hospital and share in the resulting savings by requesting an itemized copy of your bill from the hospital (the best time is when you are checking out). Check the bill for accuracy. Make sure that you actually received all services for which you were billed. Obtain a corrected bill from the hospital for any errors you find and submit both the original and corrected bill to the Benefit Plans Office.

Recreation Corner

Men's Tournaments

Retiree Al Nelson captured the Men's Singles Tournament Championship on Feb. 6 at Sunset Lanes in Portsmouth. He had a total pin count of 806 after three games. Charlie Bearhs (Chemical Operations) was the runner-up with a score of 733.

Nelson also was co-winner of the Doubles Tournament along with Ralph Strickland (Waste Management Operations). Their combined score was 1,416. Runners-up were Jim Thompson (Health Physics) and Rob Litten (Health Physics) whose combined score was 1,380.

Women's Tournaments

Joyce Netter (Procedures) took the Women's Singles Bowling crown on Feb. 13 at Sunset Lanes. She scored 674. Mary Ann Rapp (Management Information Systems) was runner-up with a score of 640.

Darlene Munn (Uranium Materials Handling) and Carol Adams, wife of Ron Adams (Chemical Operations), won the Doubles Tournament, which was also conducted on Feb. 6 at Sunset. Their score was 1,209. Runners-up were Connie Wheeler (Radiochemistry) and Eva Helmick, wife of Dave Helmick (Power Operations Maintenance), with a score of 1,175.

Championship Tournament

This year, it seemed that having the name Nelson was a good luck charm if you were competing in the 1993 Company Bowling Tournament. Barbara Nelson (Janitor Services) and Retiree Al Nelson were the champions; however, they are unrelated. They won the championship on Feb. 20 at Sunset Lanes.

Competitors in the championship tournament were the top 15 male and female bowlers from recent bowling tournaments. The contest consisted of scratch bowling where bowlers rolled seven games against different opponents. They received one point for every 50 pins and one point for each opponent they defeated.

Al Nelson's average was actually less than two of his opponents, but his consistency put him over the top. He averaged 211 per game, while Rick Mains (Safety Analysis) averaged 221, and Tim Burton (Management Information Systems) averaged 214.

Barbara Nelson averaged 187 in the Women's competition. Joyce Netter (Procedures) also averaged 187 while Diana Yates (Uranium Materials Handling) averaged 174.

The bowling tournaments were sponsored by the Employee Activities Committee. All winners will be invited to the EAC Recognition Banquet in November.

Easter Egg Hunt

The 1993 Children's Easter Egg Hunt will be conducted at the Vern Riffe (Pike County) Joint Vocational School on Saturday, April 3, at noon. All employees, retirees, and their children and grandchildren are cordially invited to attend. There will be 8,000 candy-stuffed eggs to find with giant stuffed animals for the children who find the lucky eggs. Marko the Clown will entertain the children with a magic show and balloon sculptures. Free pop, snacks, and popcorn will also be available.

Sandra Pollard (Waste Management) is chairing the event, which is sponsored by the EAC. For additional information, please contact her at Ext. 2024 or John Geodeon at ext. 3878.

Obituaries

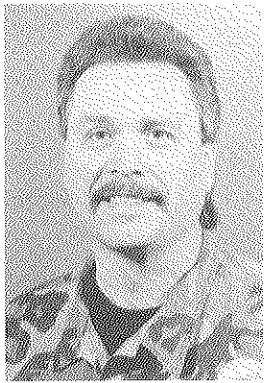
Johnie L. Ruby, 65, Sciotoville, Feb. 5. He was a Converter, Maintenance, when he retired in February 1983. Survivors include his wife, Helen.

Ethel Wilburn, 80, Florida, Feb. 23. Survivors include her son, Jim Wilburn (Mechanical Engineering).

Doris J. Walters, 60, Portsmouth, Feb. 25. Employed in the Information Control Department, Walters had worked at the plant for more than 38 years.

Ethics Hotline

- Portsmouth Ethics Representative Wayne McLaughlin (Ext. 2554)
- Portsmouth Waste, Fraud and Abuse 24-hour Hot Line (Ext. 2401)
- Energy Systems Hot Line (615-576-9000)
- Martin Marietta Corporation Hot Line (1-800-3-ETHICS)
- DOE Inspector General and Environmental Hot Line (1-800-541-1625)



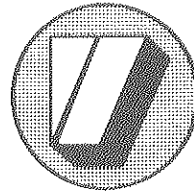
Scott



Vanderpool



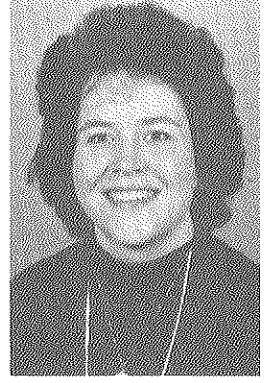
Valentine



Banks



Hollback



Coriell



Lemmon



Etling



Campbell



Odle



Kyle



Hopper



Johnson



McDermott

McDermott named Champion Manager for calendar 1993

Roger McDermott, Division Manager, General Plant Support, has been selected by his peers as the 1993 Champion Manager for Values. Roger has been recognized as demonstrating concern for people, encouraging teamwork, accepting and offering challenging opportunities, being willing to offer assistance, treating others with respect, demonstrating openness and proving to be trustworthy. His term as Champion Manager will expire on Dec. 31.

Council will host five site meeting

Portsmouth's Values Council will host Values Council members from the other four Energy Systems sites on April 1 and 2 in the X-1000. Five members from each site will attend along with all Portsmouth Values Council members. Clyde Hopkins, President, Martin Marietta Energy Systems, will attend as well as Wendy Fields, Vice President for Uranium Enrichment.

Values council gets new Chair

LaDonna Coriell, Labor Relations, has recently joined Jack Scott, Protective Forces, as Co-chair for the Values Council. They conduct weekly meetings with the divisional representatives: Bill Lemmon, TQM; Keith Vanderpool, Cascade Operations; Dick Valentine, Chemical, Utilities and Power Operations; Keith Banks, Technical Operations; Karen Hollback, Safety and Health; Sandy Etling, Environ-

mental and Waste Management; Jim Campbell and Lynne Odle, Environmental Restoration; John Kyle, General Plant Support; Joyce Hopper and Jane Johnson, Human Resources; Don Rockhold, Management Systems and Compliance; Beth Keener, Safeguards, Security and Emergency Services, and Ken McCall, Business Management. Kathy Kratzenberg serves as Recording Secretary.



Rockhold

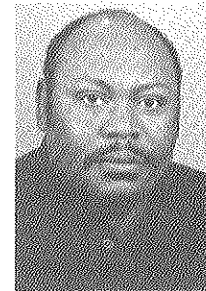


Keener

Values Council makes donations to several worthwhile causes

The Values Council has made 15 charitable contributions from funds obtained from the plant's aluminum can recycling fund since November 1991. These contributions were in increments of \$100 and were made to the following charities: the Christy Long Fund in order to provide financial assistance for Christy's heart transplant operation; the Wesley United Methodist Church, Courtney Todt Fund, to provide financial assistance for Courtney's double lung transplant operation; the Andy Blake Athletic Fund at Beaver Elementary in memory of Andy to meet the needs of underprivileged area athletes; the Pike Co. Jr. Deputy Sheriff Organization in order to further educate this group of young people in areas of drug awareness, law enforce-

ment, water and first aid safety, and leadership skills; the Springfield Township Volunteer Fire Department to help them purchase a Hydraulic Rescue Tool; the Scioto County Humane Society in order to assist in the funding of homes for animals; Thomas J. and Connie Ward in memory of Timothy J. Ward to assist in medical bills related to Timothy's cystic fibrosis; Notre Dame Elementary School to help them purchase art supplies; the Garrison (Ky.) Volunteer Fire Department to assist in a fund raising drive to purchase smoke detectors for senior citizen and handicapped residences; Employee Ron Phipps to assist his daughter Sandy, who lost her husband, Gregg Cooper, to cancer; Josh Skeans, to provide financial assistance to cover expenses for Josh who was diagnosed with Hodgkin's disease; Sciotoville United Methodist Church "Lamb's Team," to assist in helping the Lamb's Team promote the "Say No to Drugs" theme; David Entler, to provide assistance to Employee Connie Entler's son, David, who lost his wife and two sons in an automobile accident; Employee Jackie Adkins, to provide assistance to Jackie and her family who lost their home to fire; and Employee Jim Whitt, to provide assistance to Jim and his family who lost their home to fire.



McCall



Kratzenberg

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