



Shellegram

Deer Park Manufacturing Complex

January, 1984

Vol. 49, No. 1

Of entire DPMC operations

Freeze forces shutdown

THE MOST SEVERE and prolonged cold spell to hit the Houston area froze operations at the Deer Park complex during the Christmas holidays.

A phased shutdown was orchestrated Dec. 24 and 25, marking the first time in recent memory the entire Deer Park facility fell silent. The complex began a programmed return to normal operations Dec. 29, returning to near normal operations within one week.

A number of problems combined to bring the complex to its knees, but a dwindling supply of boiler feed water was the main culprit. Intense cold weather, fortified by 110 consecutive hours of subfreezing

temperatures, created the inadequate supply of boiler feed water, which in turn caused a steam shortage. As feed water inventories drew low, management decided to shut down.

"Water we use to supply the boilers is more pure than bottled water," said Bill Charles, process manager, Utilities Distribution. "If we don't remove the minerals and impurities, if we were to use 'tap water,' scale would quickly build inside the boilers. This makes the boilers inefficient."

Utilities lost its ability to demineralize water when equipment in that process area succumbed to the arctic cold, freezing up as early as Dec. 23.

"We normally have sufficient inventory of water to go through typical Houston freezes, but three things worked against us this time," Charles said.

"First, because of the severe cold, steam demand was up 20-25 percent," he said. He explained this was in part caused by heat loss from steam lines, steam tracing and use of steam lances. Steam tracing and steam lances involve directing steam to pipes and instrumentation usually not heated.

"Second, equipment needed to demineralize the water was malfunctioning due to the freeze, so boiler feed water, needed to produce steam, was being produced at reduced rates," Charles said.

Third, units struggling to stay on line could not return sufficient steam condensate.

"Our system is designed to utilize returned condensate as a significant portion of boiler feed water supply," said Mike Martin, process manager, Utilities Central. "The increased demand, coupled with lost condensate and reduced production due to the demineralizer equipment problems made us pull from inventory."

WHEN THE COMPLEX began to use boiler feed water inventory at increased rates early Dec. 24, it was clear that operations would have to be curtailed to reduce water usage. "We could guarantee only 18 hours of steam," said Charles, "and that was if we ran at reduced rates."

Reducing production rates of units involved the Economics and Scheduling (E&S) department which oversees incoming and outgoing product.

"We keep current a priority list of units that are the quickest, less costly to shut down when we have a need to conserve steam," said Jim Newlin, manager of E&S. "Utilities implements this when there is a need. They notify particular units that they are going to be dropped."

(Continued on page 4)



BICYCLE OR ICICLE...Angel Martinez, Dispatching-Docks, figures he will have a tough time riding the bike in this condition. The bike was parked next to a dripping firewater valve during the Christmas freeze.

Noon play prepares bridge partners

When the Shell Worldwide Bridge Tournament attracted more than 350 duplicate bridge teams to tables at some 30 locations on five continents, two DPMC employees were out to capitalize on their many hours of noon time play as bridge partners.

Paul McHenry and Ray White of Quality Assurance-South placed fourth in the Houston tournament held in early November (results of the worldwide competition are yet to be released). They did well because they play as partners every day and understand each other, said Ray White.

McHenry and White have been partners for about nine years during daily noon-time games played in the lab break room. This is their fourth try at the worldwide tourney as partners.

"Each year we have done better," explains McHenry who played in the initial match in 1966 and most of the other 17, but with various partners. "I think it is because we are more relaxed. We are not as serious as some of the others. We play for fun."

"It is a thoroughly enjoyable, challenging game," offered White as explanation for spending each day's lunch and four other evenings a month playing bridge.

"Most noon-time games are between friends," added McHenry. "You play against people you enjoy playing against. Some of these people are so competitive they must win, so half of the pleasure is not letting them. That kind of gets to them," he said, smiling and turning his hand as if he was twisting a knife.

"Sometimes cards are thrown against the wall or even torn up in frustration," said Paul Rivere as he laughed and swiftly jerked his playing hand towards the wall. Rivere and Arlon Boozer of Quality Assurance-South are

the noon-time competition for McHenry and White. Despite the antics of mutilated cards, a new deck is always on hand for the next day's competition, the group concurred.

"We do play for fun," McHenry insisted. "Unlike duplicate bridge tournaments, where players are quite serious and the rules are strictly followed, at noon the bidding is wilder and the rules and regulations not as closely followed. Some people say that hurts your duplicate bridge, and it really does, but we play for fun," he again added.



NOON-TIME BRIDGE...From left, Arlon Boozer, Paul McHenry, Ed Bealle, Paul Rivere and Ray White follow a daily routine. The teams of Boozer and Rivere and McHenry and White have competed in the game of bridge daily for a number of years. There were conflicting reports as to which holds the upper hand. Bealle, the game's kibitzer, is a daily observer and frequent alternate in the noon-hour games.

DPMC employees contribute to success of charity drive

"There is no question corporate and employee campaigns worked harder than ever to compensate for what obviously has been a most difficult economic time," said 1983 United Way General Chairman Tom Wilson of Capital Bank in a recent thank you note to complex manager Bill Thompson.

Deer Park employees combined with other Houston area Shell employees and the \$1.2 million corporate contribution gave more than \$2.1 million to the United Way of the Texas Gulf Coast. This was an 8.5 percent increase over 1982 donations.

The Shell money helped pace the local campaign to \$36,538,733, the most money ever raised in the history of the campaign, Wilson said.

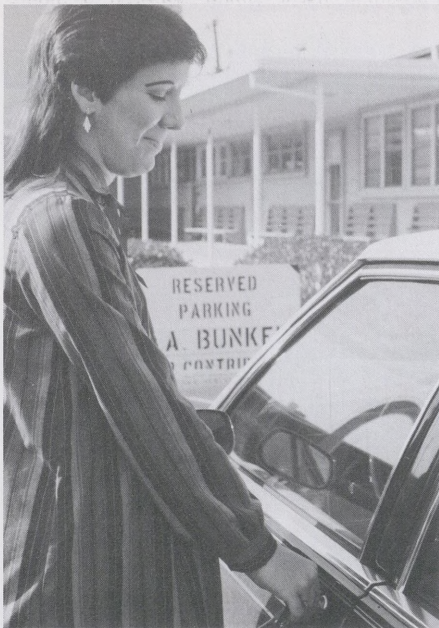
At least \$3 million of that represents new and increased contributions. Since 1979 the Texas Gulf Coast United Way has raised

nearly \$13 million of new funds, which is the largest rate of growth of any major population center in our country, Wilson said.

"It is gratifying to know that Deer Park employees played a role in helping the Gulf Coast campaign grow," said Lon Stern, DPMC campaign co-coordinator. "We suffered through the same hard economic times and natural disasters as our neighbors, but Deer Park employees responded generously to the needs of the less fortunate."

While displaying his pride of the 1983 achievements, Wilson acknowledged that United Way efforts are still challenged, and already the 1984 campaign is being organized.

"In a few months planning for the 1984 DPMC campaign will get underway," said Stern. "We can expect even greater generosity from our employees."



UNITED WAY GIFT...Leigh Ann Bunker of Environmental prepares to leave her specially marked parking place next to the South main gate. Bunker received the parking place for the month of January as a thank you for giving to the United Way. G. R. Bird, Maintenance, is using the North side spot this month. Additional winners will use these spots in the remaining months of 1984.

SCORA News: Chili Cookoff planned

FOLLOWING A TORRID PACE of activities to end 1983, SCORA board members are focusing attention on the first major event of the year, the Fourth Annual Shell Clubs Chili Cookoff.

The Chili Cookoff and dance will be held Saturday, March 24 on the Pasadena Rodeo Grounds. Different from past years, the dance will be held the night of the cookoff, 8 p.m. until 1 a.m., in the Rodeo Grounds' Campbell Hall, 7600 Red Bluff Road.

Admission to the dance is \$3 per person. Admission to the daylong cookoff and its associated activities and antics is \$2 for adults, \$1 for children.

Prior to the cookoff, SCORA is planning a March membership drive. Details of the campaign were incomplete at press time. Also being planned is a February 28 skating party to be held at Deer Park Skate World. Watch bulletin boards and the next **SHELLEGRAM** for complete details of both events.

SCORA is also participating with the Shell Clubs to sell choice mezzanine seats for the Houston Livestock Show and Rodeo. The group has purchased 1,000 tickets for the Saturday, Feb. 25 presentation and 500 for Friday, March 2. Merle Haggard and Sylvia will perform at 11 a.m. Feb. 25; The Gatlin Brothers will be on stage at 7:45 p.m., March 2. Tickets need to be purchased by Feb. 3. Checks should note that you are a SCORA member, be made payable to the Shell Data Processors Club, and mailed to the Information Center - SDPC, Room 3C04.

In a meeting held just prior to press time, SCORA board members set dates for the annual membership drive.

The drive will kick off with a sign-up rally Feb. 24 and continue through the chili cookoff March 24. Additional details were not available.

In a related matter, the board announced the election of a new board will take place along with the membership drive. When an employee signs for 1984 membership, the employee will vote for board members.

Employees wishing to run for a board seat must submit their names to Carolyn Anderson, SCORA secretary, S/ADM 267, by Feb. 15.

WHILE ACKNOWLEDGING the popularity of the chili cookoff, an event sponsored by SCORA for all Houston Shell Clubs, coordinator Nikkie Saunders, Mechanical Equipment, is not afraid to change the format. "We moved the dance to Saturday night to allow guests from distant parts of Houston to make one trip in-

stead of two to participate in both the cookoff and dance," Saunders said. "We have also added a fun run and are inviting outside vendors to set up booths for the cookoff. We are adding more activity to an already busy day."

Adding the outside vendors to the list of club member vendors who participate will boost the number of side attractions. Booths offering soft drinks, beer, sno-cones, cotton candy, t-shirts and such will be plentiful. SCORA will again sponsor the popular dunking booth.

There will be entertainment and contests such as jalapeno eating, arm wrestling for men and women, and a \$1.98 beauty contest. "Chili cookoffs are fun because people participate," Saunders said. "They take part in the games, in the chili contest or work in booths.

"People work hard to see that the day goes smoothly, but they enjoy the spirit of the day; there is a lot of camaraderie," she said. Making a pitch for volunteers, she said, "We need people to help set up booths, to man the booths and host the judges." People calling Saunders now, extension 7113, can pick where they want to work, she said.

LARRY KEEPERS, MAINTENANCE, is also looking for volunteers. Keepers, as head of DPMC's running club, is working with the Channel In-

dustries Sports Association (CISA) to stage a three-mile fun run to kick off the Chili Cookoff. The run will start and end on the rodeo grounds. The race is being structured as a fun run with individual awards as well as team competition among industry and business along the Ship Channel, Keepers said.

Company teams will consist of 15 runners or more. "The important thing is for a company to get 15 people to cross the finish line," Keepers explained. "The first 15 people score a point for the team. It doesn't matter if that person runs or walks when he or she finishes. They just need to finish."

DPMC employees can pick up entry forms and information sheets from SCORA ticket sellers: Sherri Hartley, OLEF 106; Betty Hilliard, NSA 108; Betty Benson, LPA 141; and Pam Olivo, S/SHOP 108. Additional information can be obtained from Keepers or other members of the DPMC runners club.

A SUCCESSFUL T.G.I.F. PARTY at Dillon's in the San Jacinto Mall Dec. 16 and a popular children's Christmas party closed out 1983. More than 150 children attended the Dec. 17 Christmas party which featured a movie, clowns, Christmas caroling, refreshments and, of course, a visit from Santa Claus. The jolly one provided stocking gifts and candy canes for the youngsters.



NOT TOO SURE...Wayne Castellow of Purchasing escorts his sons, Adam, 5; Jonah, 3; and Erick, 2, for a visit to Santa during SCORA's Children's Christmas party. Erick, sitting on Santa's lap, doesn't seem too sure about the visit. Jonah is keeping an eye on the situation, while Adam sticks close to daddy.

Complex manager praises employees for e

(Continued from page 1)

A unit gets on the priority list because it can come down in a matter of minutes, can make up lost production time, or will not cause a great loss of product by venting pressurized products through safety flares. Some of the units on this list Christmas Eve were Flasher 1, BA Finishing, Distilling Units 1 and 3 and Alkylation.

"Normally we would shut these units down for four or five hours until the upset stabilizes and then bring them back up," Charles said. "However, the forecast started calling for the freezing temperatures to be prolonged. We didn't bring the units back on line because we still were drawing on inventory."

THIS FORCED E&S to start dropping other production units. "We studied Shell's economic and critical product needs, balancing a unit's contribution against steam and boiler feed water consumption," Newlin said.

"We came up with a contingency shutdown list and decided to take those units down Christmas morning."

Early Christmas afternoon, water inventory was falling rapidly (Utilities estimated there was enough water to create 8-12 hours of steam.) "At that time we proceeded into a controlled shutdown of our more economically valuable units, units where we have our biggest stake in the market," Newlin said. The Catalytic Cracker, Olefins Plant-3 (OP-3) and Bisphenol Acetone Plant (BPA) are included in that group.

BILL CHARLES NOTED that shutdowns are



PROTECTING PIPES...Leo Flores, left, Process Engineering, Utilities and Van Huddleson, Utilities, inspect insulation added to pipes at Power Plant-2 as a makeshift measure to combat freezing temperatures.

anything but quiet, inactive times. "Employees throughout the complex became very active," he said. Operators had to go out in the freezing temperatures to facilitate the shutdown. Many worked a lot of overtime. Because of frozen lines, leaks and malfunctioning equipment, maintenance employees also worked overtime. Engineers joined the operators and craftsmen outside, tracing lines, looking for problems and solutions.

"It is a credit that people did this without griping," Charles said. "In fact, many employees came off vacation to assist."

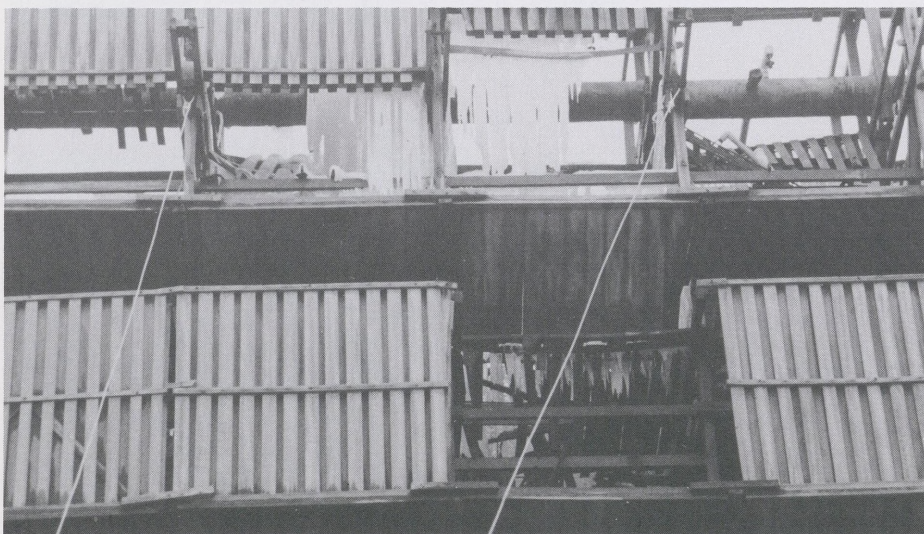
Bill Thompson, complex manager, echoes Charles' sentiments. "Our personnel put forth extraordinary efforts during most difficult and uncomfortable times," Thompson said. "They minimized injuries, despite unusual hazards associated with ice and cold, and did a good job protecting the environment."

"Our employees secured and repaired this facility in an exemplary manner," he added emphatically.

ALTHOUGH ACTIVITY was heightened during the shutdown period and during preparations to start up again, many precautions were also taken prior to the blast of arctic air.

"There are freeze precautions we take," said Charles. "When we expect sustained 30 degree temperatures we implement some precautions. When we expect lower sustained temperatures we take additional precautions." Some of the precautions are running water from safety showers and faucets, bypassing steam traps and setting up steam lances which spray steam heat on pipes and instrumentation susceptible to freezing.

Additionally, in anticipation of another freeze during the startup, some makeshift measures were implemented. Insulation was temporarily packed around sensitive areas, copper tubing carrying steam was wrapped around pipes and instruments, and a tarpaulin wall was hung around the



NATURE'S FURY CONTRASTS...Stalactites inside the cooling water tower are visible through holes blown through the wooden structure by high winds of Hurricane Alicia. Len Alpert, superintendent of Resins Operations, recalled the last time Deer Park was greatly affected by cold weather was the winter following a visit from Hurricane Carla.

extra efforts during crisis

demineralizers at CPS.

"Nonetheless, we simply are not designed to run in prolonged, severely cold weather," Charles said. "We must analyze this experience and see if we can avoid the same pitfalls. We need to find out what it takes to run through one of these 100-hour excursions."

DURING THE CRISIS many engineers were looking to see what could be done to get things started again, but they were also trying to understand what was needed to protect for the long term as well.

"People like Guy Matelli and Rufus Morse, Chuck Thompson and Ron Novosad were chasing leaks or looking at data to see how we could minimize our risk," said John Gognat, technical manager of Processing Engineering, Utilities and Environmental. "We will take this data, collect more from Operations and E&S and rationally look at what we should be doing to improve water systems and freeze protection," he said.

A study team headed by Charles and Newlin is already working toward this goal, Gognat said.

FOR THREE DAYS, Dec. 26 to Dec. 29, DPMC was quiet while the demineralizers were restored to full operating condition and a supply of treated water was accumulated. Some units were circulating crude oil just to keep heat in the units, but there was no production. The startup began with VCM coming on line Dec. 29. However, the units only began coming up after much work and step-by-step preparations on the part of many people.

B. T. Waggoner, process manager of Solvents and Distilling, paralleled the mammoth startup task to that of eating an elephant. "You take it one bite at a time," he said.

And that is just how E&S approached the startup. Based on status reports collected many times a day, E&S drew up daily priority lists, juggling the list frequently as progress changed.

"The first thing you look at is the economic impact. Theoretically, you bring up the more valuable units first, as you bring them down last," Newlin said. "However, there are many other factors involved that prevent such a systematic process. For example, some units are affected more than others by the cold weather or the rushed shutdown and need more time for maintenance.

"Or, a certain unit is ready to come up, but a unit that supplies feedstock isn't," he said. This is especially critical if the feedstock is

provided from outside Shell. The other company may have different priorities, he added.

IF GETTING BACK on line is like eating an elephant bite by bite, some areas must have felt they were served larger pieces.

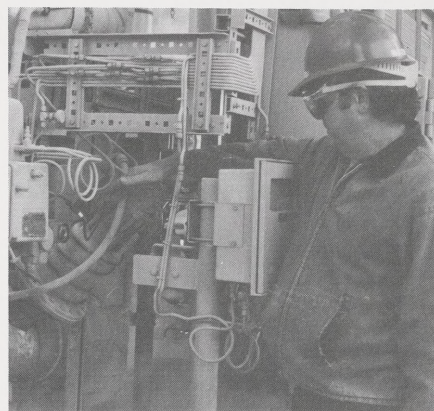
The docks were without water for more than a week, said Frank Mazza, manager, Dispatching-Docks. He grimaced as he explained the effect of not having water on the necessities of life. "We ordered coffee from the cafeteria, transported water in igloo chests and brought in portable johns," he said.

Employees in EPON-5 were more fortunate in a way. "This area was one of the first to get utilities and sanitary water returned," said Jake Renteria, a supervisor in Maintenance South. "A tremendous amount of communication, planning and cooperation among operations and maintenance helped get the job done quickly."

However, because of extensive damage to heat exchangers during the shutdown, EPON-5 was not as quick to get back on line.

ENVIRONMENTAL OPERATIONS probably had the biggest part of the elephant to digest. Effects of the freeze are expected to tax the treatment facilities until the end of January.

Water pouring from busted pipes and dripping from faucets and safety showers into the sewer lines carried more water than environmental treaters could handle. "We

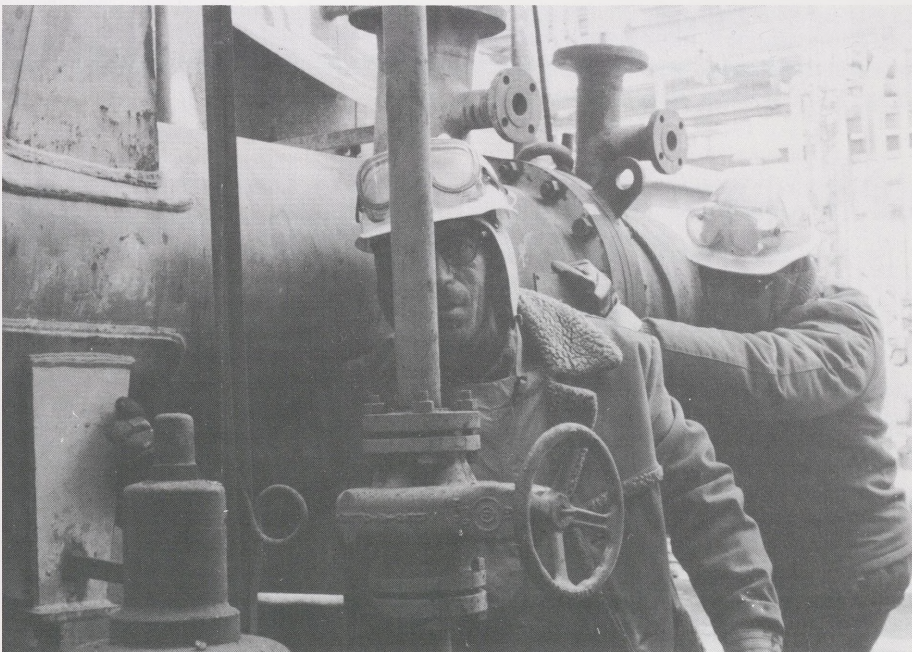


HEAT CONDUCTOR...Loren Brunner of Utilities inspects copper tubing temporarily wrapped around instrumentation used in the production of boiler steam water. Steam was routed through the tubing to keep the instruments from freezing during DPMC's second bout with freezing temperatures in December.

diverted water as necessary to impoundment ponds, filling these to above 90 percent capacity," said Steve Leach, manager of Environmental Operations.

"Process operators cooperated with our operators, keeping us alerted to problems associated with startups," he said. We will continue to take emergency measures and remain alert until the problem eases, which should be the end of January."

"You can't say enough about the effort everyone out here gave, and is still giving," reiterated Thompson, as he extended a New Year's wish for better and warmer times.



REPLACE EXCHANGER...C. L. Erwin, left, and K. Nolan of Maintenance help replace a heat exchanger in EPON-5. The exchanger, which fouled during the shutdown, was removed from its casing to be cleaned.

Shell supports women's crisis center

Shell supported the generous efforts of four of its employees when the Shell Companies Foundation contributed \$3,000 to The Bridge Over Troubled Waters, a local shelter for women in crisis.

Lisa Smith of West Operations, Dan Austin, Frank Fulgham and Tom Shaw, all of Maintenance, are responsible for calling Shell's attention to the financial needs of The Bridge, a United Way organization.

The shelter is raising money for capital improvements to a new facility expected to

eventually triple current accommodations. "We turn away 250 calls a month because we don't have the space to help these women," said Sandra Hatten, Coordinator of Volunteers. "There are only 17 shelters in the State of Texas."

Fulgham, an advisory board member, became familiar with The Bridge through his wife, Pat, one of its first volunteers. Together they provide many hours of varied assistance to the shelter.

Smith provided office assistance and answered the crisis line in the past, and is currently involved in writing the shelter's monthly newsletter.

Austin and Shaw both provide maintenance work around the shelter, but go far beyond that. Austin's Sunday school class purchases household necessities for The Bridge and when necessary, he makes up the difference between what is given and what is needed.

Shaw and his wife Maria collect and donate such items as furniture, clothing and toys.

"It's surprising what a shelter for battered women needs," Smith explained. "Women often come to the home with only the clothes on their backs. Frequently, they are in life or death situations and there is no time to pack a bag of clothes, deodorant or even a toothbrush."

"As the current facilities are expanded, the shelter will need at least 60 additional volunteers," said Hatten. "We need office workers, people to help with transportation and maintenance, and advocates -volunteers who work one-on-one as a friend to help a woman meet her goals during the 3-month residence program and after she leaves The Bridge."

Looking to the future, Hatten says "Our goal is to shelter and work with women affected by any type of violence. Currently, programs are being developed to provide assistance to rape victims and to teach parenting skills aimed at preventing child abuse."

For further information, call The Bridge at 473-2801.



HELP FOR THE BRIDGE...Sandra Hatten, center, receives a Shell Companies Foundation check from Lisa Smith. The money is earmarked for renovations to The Bridge Over Troubled Waters, a shelter for women in crisis. Hatten is the Coordinator of Volunteers for the shelter. Smith and the other DPMC employees are volunteers. Looking on, from left, are DPMC volunteers Tom Shaw, Frank Fulgham, Hatten, Smith and Dan Austin.

LPA opens house

The Lube/Phenol/Acetone (LPA) department opened its doors for visits from family members near the end of the year and was overwhelmed with 350 visitors.

The families were hosted by employees of LPA who provided tours of their units, and displays of safety gear and end use products derived from LPA efforts.

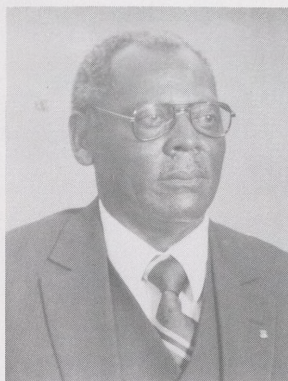
The family open house was a goal of the LPA team, said Rick Imig, engineering supervisor. "Children and spouses seldom get to see where mom or dad work in this industry," he said. "We hope the open house builds some understanding among family members as to what goes on in the place where mom or dad earns a living."

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MY DAD MAKES ALL THIS?...Andy Robb, son of LPA operations superintendent Bill Robb, views a display of products made from the LPA process. LPA employees arranged the display for an open house for their families in November.

DPMC Service Anniversaries



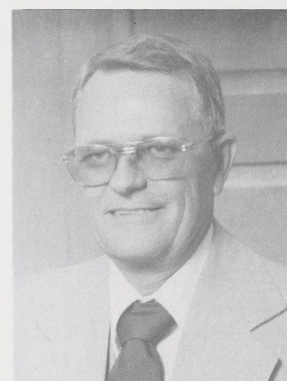
HENRY MILLER
35 Years



H. D. WILLIAMS
35 Years



BULL ARRINGTON
30 Years



BILLY DOBBS
30 Years



DERRICK DARLINGS... These five daughters of Shell employees are members of the award winning LaPorte Derrick Darlings drill team. The 60-member drill squad performed precision routines and dances during halftime of the LaPorte Oilers football games this fall. At the end of the year the drill team placed second in the Texas Intercity Football Youth League's Bay Area regional competition. The team's cheerleaders also recorded a second place finish in the competition. The Shell children are, from left, bottom, Mary Lea Holsey, daughter of Steve Holsey of Lube A; drill squad captain Jennifer Leigh Lopez, and top, Melissa Leigh Lopez, daughters of John Lopez of Utilities; Monica Jimenez, daughter of Ruben Jimenez of Maintenance-North; and Stephanie Poye, daughter of Robert Poye of Maintenance-North. Stephanie was also a member of the award winning cheerleading team.

Retirement parties will honor two longtime DPMC employees

DPMC employees will honor two longtime employees at retirement parties in February.

Sammie Lee Richardson's retirement party is Feb. 21 at J. C.'s Restaurant. A happy hour starts at 4 p.m.; a barbecue buffet follows at 5:30 p.m.

A \$5 donation covers the buffet and gift.

Contact Debbie Ellis, 476-6952, for reservations.

Mac McKinney's retirement party will be held in the North Cafeteria Feb. 10, 3:30 p.m. A \$5 donation covers a barbecue meal and gift. Contact Dottie Patterson, 476-7319, for reservations.

Corrections

Due to a printer's error, a number of mistakes occurred in the retirements and anniversaries section of the December Shellegram. The printer inverted positions of four photographs, thus causing misidentification of four service anniversary employees.

In addition, Charles Mosley's name was misspelled.

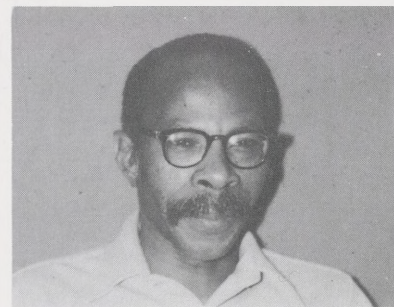
The four employees are properly listed and identified in this issue. The Shellegram regrets the errors and apologizes for any inconveniences they may have caused.

In Memoriam

The deaths of an employee and a pensioner were reported to the Shellegram during December.

Carroll Walker of Engineering Support died Christmas Eve after a brief illness. He was 54 years old. Walker worked at Shell since 1965.

Recent retiree James Palmer died December 17. He was 68 years old. The 34-year Shell veteran retired June 1, 1983.



CARROLL WALKER

Shell's Matching Gifts Program Revised beginning this year

Due to an overwhelming number of employee contributions to schools, Shell's matching gifts program was revised at the start of 1984.

Based on current levels of giving, the Shell Companies Foundation, which administers the matching gifts program, forecasts requests would exceed the funds allocated to the program.

To head off that problem, the Foundation implemented three changes to the program. First, precollege institutions will not be eligible. Second, gifts will be matched annually,

on July 30, instead of semiannually. Third, the matching gift ratio will be determined each year based on the availability of funds.

The matching gift ratio remains the same for 1984. The Foundation will match eligible contributions on a two-for-one basis.

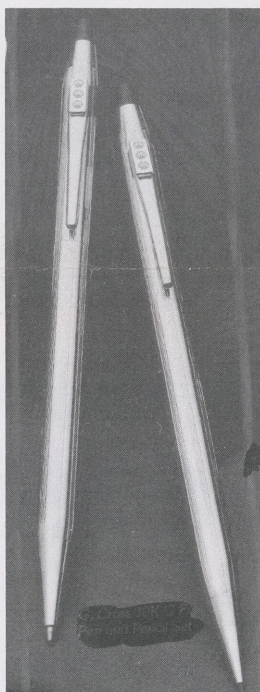
Begun in 1978 to encourage employees to support colleges, universities and private secondary schools, the matching gifts program's disbursements coupled with employee donations has amounted to \$7 million in aid to education.

New Service Awards offered

At the beginning of the new year, Shell employees started participating in an updated service anniversary awards program now administered by a new vendor with new selections.

The new vendor is Oneida Awards. It is believed that Oneida will provide superior service and eliminate problems in quality and shipping experienced in the past.

New awards employees may select for their service anniversary include a 10K gold-filled Cross pen and pencil set, an 18-inch 14K gold necklace with dangle emblem, a western-style brass belt buckle, a solid oak regulator wall clock, and a two-quart silver-plated chafing dish and tray.

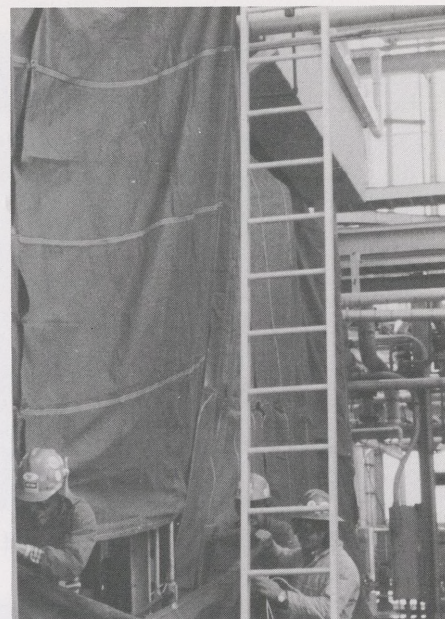


In addition, some selections retained from the 1982/83 program have been upgraded and styles updated.

"The intent of these changes is to update outmoded selections, and offer some fine jewelry items, within the established budget," said Ann Musser of Employee Relations.

In 1984, approximately 500 DPMC employees will receive an award on their service anniversary. Of DPMC's 3100 employees, more than 1500 have 10 or more years with the company and are eligible for an award every five years, up to 50 years of service.

Brochures with the new selections are available through Sandra Bradbury, Room 149, North Administration Building.



COLD WEATHER SHIELD...Brown and Root employees hang tarpaulin to protect demineralizers from freezing temperatures the last week in December.

Classifieds

FOR SALE

1982 Chevy Silverado, P/S, P/B, tilt str. wh., cruise control, pwr. windows & locks, AM/FM stereo w/cassette, sealant & fabric prot., center line mags, custom grill & rear bumper, V8, LWB. 791-9012, after 6 p.m.

1981 Datsun 310 GX, 5-spd., AC, AM/FM stereo cass., sunroof, \$4995. 280-9295.

Satoh, Beaver, tractor, 15 HP, diesel, 4 W.D. brush hog, box blade, excellent cond., \$3,000. 324-1900.

Shellegram

Deer Park Manufacturing Complex

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