

VOLUME 48 | FEBRUARY/MARCH 2020

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PIPELINERS HALL of FAME NEWS

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Tulsa Tube Bending Reputation for Innovation

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Send your comments,
stories and pipeline photos
to tbostic@pipelinejobs.com

EVENT CALENDAR

72nd Annual PLCA Convention
La Quinta Resort & Club
49-499 Eisenhower Drive
La Quinta, California
February 4-8, 2020

DCA Convention
Boca Raton Resort & Club
Boca Raton, Florida
February 24-29, 2020

Pipeliners Reunion
Stoney Creek Hotel & Conference Center
200 W. Albany St.
Broken Arrow, OK
March 19-22, 2020

APCA Annual Convention
Hyatt Baha Mar
Nassau, Bahamas
March 27 - April 1, 2020

Disclaimer

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LATEST JOB REPORTS

It is reported that **Williams** has awarded contracts for its **Bluestem Pipeline**. The Bluestem Pipeline is a proposed 188-mile, 16-inch natural gas liquids (NGL) pipeline originating at Mid-Continent Fractionation & Storage LLC's (MCF&S) facility in Conway, Kansas. When completed, it will deliver NGLs to our customer's proposed pipeline system near Kingfisher, Oklahoma. Contracts are said to be awarded to **Jomax Construction**, ph (620)792-3686 and **WHC, Inc.**, ph (337)837-8765. Work is anticipated to begin in February 2020.

The **Whistler Pipeline** consortium has awarded contracts to **Troy Construction**, ph (281)437-8214, **Strike Construction**, ph (888)353-1444 and **Pumpco, Inc.**, ph (979)542-9054. The **Whistler Pipeline** is an approximately 450-mile, 42-inch intrastate pipeline that will transport natural gas from an interconnect with the Waha Header near Cayanosa, Texas in the Permian Basin to a terminus near Agua Dulce, Texas, providing direct access to South Texas markets and consumers. An approximately 50-mile 36-inch lateral will provide connectivity for gas processors in the Midland Basin. The pipeline will have transportation capacity of 2 billion cubic feet per day (Bcf/d). Construction is expected to begin in February 2020.

Troy Construction, ph (281) 437-8214, **Pumpco, Inc.**, ph (979) 542-9054, and **MPG Pipeline Contractors, LLC**, ph (713) 955-9901 are underway with a job for Kinder Morgan and EagleClaw Midstream Ventures **Permian Highway Pipeline (PHP)** project. **Troy Construction** also has Spread 5 which will begin around the Luling, Texas area and continue toward the coast. That spread was scheduled to begin in January 2020. The approximately 430 miles of 42-inch pipeline extends from the Waha in West Texas to Katy, Texas, areas, with connections to the U.S. Gulf Coast and Mexico markets. The PHP Project is expected to be in service in late 2020.

Oneok is expected to place a job out for bids which will include construction of approximately 50 miles of 20-inch pipeline near Medford, Oklahoma. Work anticipated to begin in March 2020.

Latex Construction, ph (770)760-0820 is expected to get underway in March 2020 with a contract for Public Service of North Carolina which will include construction of approximately 30 miles of 20-inch pipeline near Raleigh, North Carolina.

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LATEST JOB REPORTS

TECO Energy has a job out for bid which is expected to begin construction in April 2020. The job will include construction of approximately 38 miles of 24-inch pipeline from Pensacola, Florida to Flomaton, Alabama. As of press time, a contractor had not been selected.

Williams Transco will be placing a job out for bid which will include construction of approximately 10.5 miles of 42-inch pipeline in Lancaster, PA. The job is expected to get underway in March 1, 2020.

TECO Energy has awarded a contract for the **Callihan Interstate Pipeline** to **Troy Construction**. The job will include approximately 21 miles of 30-inch pipeline near Yulee, Florida. Start date is undetermined.

Maxx HDD, LLC, ph (844) 629-9433 has been awarded a contract by WB Pipeline for multiple 20-inch road bores and horizontal directional drill totaling approximately 169,301 feet in Liberty, Chambers and Jefferson Counties, Texas. Headquarters is in Wallisville, Texas. Superintendent is Carlton Loftin. The approximate starting date was January 27, 2020.

Rockford Corporation, ph (214)545-6780 has been awarded a contract by Williams – Transcontinental Gas Pipeline Company, LLC for the installation of approximately 7.5 miles of 42-inch pipeline in Fauquier and Prince William Counties, Virginia. Headquarters is in Catlett, Virginia. Superintendent is Cole Henson. Work was set to get underway in January 2020.

Pe Ben USA, Inc., ph (281)452-5915 has been awarded a contract by Rockford Corporation the shipping and offloading of approximately 8.1 miles of 42-inch pipe in Fauquier County, Virginia. Headquarters is in Catlett, Virginia. Superintendent is Tim Gray. The approximate starting date is January 21, 2020.

Rockford Corporation, ph (214)545-6780 has been awarded a contract by Enterprise Products for the installation of approximately 78 miles of 36-inch pipeline in San Saba, Burnet and Williamson Counties, Texas. Headquarters is Kevlin Shaw. Work was set to begin January 20, 2020.

Dykon Blasting Corp., ph (918) 592-5278 has been awarded a contract by Rockford Corporation for blasting

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LATEST JOB REPORTS

on approximately 78 miles of 36-inch pipeline in San Saba, Burnet and Williamson Counties, Texas. Superintendent is Jimmy Floyd. Work was expected to begin January 20, 2020.

Dun Transportation and Stringing, Inc., ph (903) 891-9660 has been awarded a contract by Kinder Morgan for pipe yard preparation and material management in Irion, Kimble and Blanco Counties, Texas. Headquarters is in the pipe yards. Superintendent is Greg Norman. Work was expected to get underway January 15, 2020.

United Piping Inc., ph (218) 727-7676 has been awarded a contract by Enbridge Energy for 20-inch pipeline welding procedures in Harris County, Texas. Headquarters is in Houston, Texas. Superintendent is Mark Thomson. The approximate starting date was mid-January, 2020.

Rockford Corporation, ph (214)545-6780 is expected to construct approximately 17 miles of 30-inch pipeline between Hueco and El Paso, Texas in Hudspeth and El Paso Counties. **(South Mainline Expansion Project)**. Work is slated to begin in February 2020.

Macki Pipeline Logistics, ph (832) 214-6100 has been awarded a contract by Rockford Corporation for pipe yard construction and the offloading and stockpiling of approximately 18 miles of 36-inch pipe in El Paso County, Texas. Headquarters is in El Paso, Texas. Superintendent is Bud Evou. Work was expected to get underway January 15, 2020.

Eastern Shore Natural Gas has received approval from the FERC to construct, own, operate and maintain the **Del-Mar Energy Pathway Project**. The project includes .9 miles of 16-inch looping pipeline (Kent County, DE), 7.39 miles of 8-inch extension pipeline and new M&R (Sussex County, DE), 0.35 miles 10-inch pipeline extension and upgrade Millsboro pressure control station (Sussex County, DE), 6.83 miles of 10-inch pipeline extension; new M&R (Wicomico and Somerset County, MD), and new Measurement and Regulating Stations (Sussex County, DE; Somerset County, MD). Construction is expected to be getting underway soon with a project in-service date of the 4th quarter of 2021. Reports indicate construction is being handled by **Voshell Brothers Welding**, ph (302) 674-1414. Gale Vosell is the superintendent. **Cleveland Integrity Services** has the inspection.

LATEST JOB REPORTS

United Piping Inc., ph (218) 727-7676 has been awarded a contract by Enbridge Energy for 20-inch pipeline welding procedures in Harris County, Texas. Headquarters is in Houston, Texas. Superintendent is Mark Thomson. The approximate starting date was mid-January, 2020.

W B Pipeline, ph (832) 802-4790 (two spreads – 93 miles) and **Southern Pipeline**, ph (501) 281-4640 (one spread of 35 miles) are underway with construction of approximately 138 miles of 20-inch pipeline from Stephenville, Texas to Hearne, Texas.

Energy Transfer is expanding the Lone Star Express Pipeline (Lone Star Xpress II). The Lone Star Xpress II will consist of approximately 360 miles of 24-inch pipeline from Wink, Texas to Morgan, Texas. In-service date for the project is expected in mid-2020. Contractors for the project are: **Spread 1- Pumpco, Inc.**, ph (979) 542-9054, **Spread 2 – Troy Construction**, ph 281-437-8214, **Spread 3 – Holloman Corporation**, ph (281) 878-2600, and **Spread 4 – Precision Pipeline**, ph (715) 874-4510.



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TULSA TUBE BENDING Reputation for Innovation

In the last ten years Tulsa Tube Bending has made significant investments to better serve the needs of the midstream pipeline industry. The investment master plan called for the development of technical and metallurgical capabilities to comply with ASME B16.49, the heat induction pipeline bending specification as well as many similar customized company specifications. Additionally, the plan included a factory expansion, an increase of office space and adding additional technical and operations personnel. The heart of the master plan was the purchase of a state of the art 36 inch outside diameter capacity heat induction pipe bending machine. This added capacity to the 28 inch outside diameter capacity heat induction machine and many cold forming bending machines already operated by the company. The investment allowed the company to significantly improve and expand its service of the midstream pipeline bending industry.

This master plan ensured that the company would remain a world class example in the pipe bending industry. For many decades Tulsa Tube Bending has been the leader in the national bending industry. The company offers heat induction bends up to 36 inch outside diameter, cold formed bends up to 12 inch pipe and helical pipe coils up to 8 inch pipe. The company produces more orders and more bends than any company in North America.

Founded in 1958, the company has a reputation for innovation and industry leading ability. The company was the first in the United States during the 1960's to design and build custom cold bending machines for sizes up to 12 inch pipe. These machines were built specifically to provide bends for the pipeline industry. In the 1970's as heat induction bending technology developed, the company was the first company in North America to own and operate a state of the art Cojafex heat induction pipe bending machine.

During the 1980's the company was an early adopter of computer technology by having one of the first local area computer networks in its region. Since that time the company has developed its own in-house enterprise-wide software system built specifically to service the needs of the company's customers.

In the 1990's the company was awarded the two largest contracts ever let in the bending industry. Each contract was placed by a different Fortune 100 manufacturing company. Many skills in operational excellence and quality assurance were refined during this time. All Tulsa Tube Bending customers no matter how large or small benefit from this experience.



During the 2000's the company became a leader in adopting Lean manufacturing in its manufacturing processes. The success of this effort dramatically changed the company by implementing over 10,000 process improvements, resulting in a 130 percent improvement in productivity. This effort also drastically improved the quality and on-time delivery of products. This effort resulted in a number of accommodations and awards. The company became a certified key supplier for a Fortune 100 company. The company was given the Award of Excellence by the state of Oklahoma, the Manufacturing Award given by the governor of Oklahoma and named a

Blue Ribbon Small Business recipient by the United States Chamber of Commerce.



Much more important than the awards, due to this effort our customers saw a dramatic improvement in our service and quality. In customer surveys, our customers gave us either 98 percent or 99 percent ratings of good or excellent on questions concerning our helpfulness, how quickly we responded to inquiries, the quality of our product and the speed of our product delivery times. Other company metrics achieved include:

Customer Satisfaction: 97.6 percent
On-Time Shipments: 96.4 percent
Quality Rating: 99.0 percent

In the 2010's and up to the present, the company continued to build on the previous decades. Particularly recognizing how important company's employee culture is to its ability to serve its customers in a world-class manner. A mission statement was created "Serving others. Building people. Pursuing excellence." The company is considered to have one of the best companywide cultures in the mid-west. Three times Tulsa Tube Bending has been recognized as a Best Place to Work in Oklahoma. The annual company Christmas card featuring a light-hearted picture of every employee dressed to represent one of the year's holidays is a visual example of the great company culture.



In order to properly serve our customers the company has developed a highly trained customer service and inside sales force. The sales force is the most experienced in the industry. The department, known for its quick quote turn-around times has over 80 man-years of experience in quoting and servicing customers.

During this time period, while developing the technical ability to meet the high standards of heat induction bends for the pipeline industry, the company also developed the ability to produce segmentable pipeline bends. Segmentable pipeline bends are one of the latest innovations in pipeline bending. Normal pipeline bends have a slight out-of-roundness or ovality in the bend arc. This occurs due to the high pressures applied to the pipe during the bending process. In a segmentable bend, this out-of-roundness or ovality is controlled to typically less than one percent of the outside diameter of the pipe. This minimal out-of-roundness allows for flexibility when ordering pipeline bends and when installing pipeline bends at the job site. With segmentable bends, i.e. bends that can be segmented in the field and are round enough to be welded, the exact degree of bend required for each turn in the pipeline is not needed. Instead, 90 degree bends are ordered from the pipe bender. At installation, the bends are cut to the degree as needed at the job site. The minimal out-of-roundness of the segmentable bend allows for a proper welding fit up. Tulsa Tube Bending has developed the ability to produce segmentable bends in many pipeline sizes that a number of our competitors are unable to produce. Another example of innovation while serving the customer.

Based in Tulsa, Oklahoma our location is a central shipping point to customers all over the United States. Tulsa's long history in servicing the pipeline construction industry allows the company to have access to a wide range of pipe inventories facilitating quick delivery orders.

Tulsa Tube Bending's goal is to ship typical bending orders in three days from time of order. This is the fastest delivery time in the industry. That combined with an over 96 percent on-time shipping rate allows our customers to have a high degree of confidence when placing orders. Naturally, heat induction bends to higher specifications like ASME B16.49 take longer. However, many of those types of orders we receive are due to our faster delivery times there as well.

Today, Tulsa Tube Bending continues to innovate while offering world-class service and quality for our customers. We are thankful for the thousands of customers that have placed their bending orders with us. We look forward to continuing to serve them. We look forward to serving thousands of new customers in the coming decades.

Brad Frank is CEO of Tulsa Tube Bending Company, 4192 South Galveston Avenue, Tulsa, Oklahoma 74107, phone 888-882-3637, fax 918-446-1595, e-mail sales@ttb.com, website www.ttbt.com. Tulsa Tube Bending produces bends in sizes up to 36 inch outside diameter pipe and helical pipe coils in sizes up to 8 inch pipe size.

PROPOSED PROJECTS & UPDATES

ANR Pipeline Company has received a Notice to Prepare an Environmental Assessment (EA) from the FERC for the **Grand Chenier Xpress Project**. The proposed project includes facilities in Acadia, Jefferson Davis, and Cameron Parishes, Louisiana: modifications of ANR's existing Eunice Compressor Station in Acadia Parish, Louisiana, to increase the total certificated horsepower (hp) from 24,000 hp to 39,370 hp, and abandonment of an existing reciprocating compressor in place; construction of a new 23,470 hp greenfield compressor station (Mermentau Compressor Station) in Jefferson Davis Parish, Louisiana; modifications of the existing Dresser-Rand compressor unit and installation of 42 feet of aboveground piping at the Grand Chenier Compressor Station in Cameron Parish, Louisiana; and modifications of the Mermentau River GCX Meter Station, including the installation of an additional meter run and related appurtenant facilities in order to increase the delivery capability from 700 million cubic feet per day to 1.1 billion cubic feet per day. The EA is expected to be available March 27, 2020 with a final FERC environmental decision slated for June 25, 2020. ANR is requesting that the FERC issue an order approving the application by November 30, 2020, so that ANR will be able to begin construction on a timely basis and commence service by January 1, 2022.

FERC has issued approval for the **Annova LNG Brownsville Project**. **Annova LNG Common Infrastructure, LLC; Annova LNG Brownsville A, LLC; Annova LNG Brownsville B, LLC; and Annova LNG Brownsville C, LLC** are planning to construct, and operate a liquefied natural gas (LNG) export facility in Cameron County, Texas. The project will include a new LNG export terminal capable of producing up to 6.95 million metric tons per year of LNG for export. The LNG terminal would receive natural gas to the export facilities from a third-party intrastate pipeline. Annova anticipates a five-year construction period. The facilities for the project include the following major components: gas pretreatment facilities; liquefaction facilities (six liquefaction trains and six approximately 72,000 horsepower [hp] electric motor-driven compressors); two LNG storage tanks; boil-off gas handling system; flare systems; marine facilities; control, administration, and support buildings; access road; fencing and barrier wall; and utilities (power, water, and communication). Construction is slated for 2022 with a partial in-service date of 2024.

Corpus Christi Liquefaction Stage III, LLC (CCL Stage III) and **Corpus Christi Liquefaction, LLC** has received approval to site, construct, and operate additional facilities for the liquefaction and export of domestically-produced natural gas (Stage 3 LNG Project) at Corpus Christi Liquefaction's existing liquefied natural gas (LNG) terminal on the northern shore of Corpus Christi Bay in San Patricio and Nueces Counties, Texas (Liquefaction Project). The proposed **Stage 3 LNG Project** consists of the addition of

seven midscale liquefaction trains and one LNG storage tank. FERC also approved a project for Cheniere Corpus Christi Pipeline, L.P. to construct and operate new interstate natural gas pipeline, compression, and related facilities in San Patricio County, Texas (Stage 3 Pipeline Project). The proposed Stage 3 Pipeline Project comprises a new 21-mile-long, 42-inch-diameter pipeline, additional compressor units at the existing Sinton Compressor Station, meter stations, and appurtenant facilities to transport 1.5 billion cubic feet per day (Bcf/d) of natural gas bi-directionally between the proposed Stage 3 LNG Project facilities and interconnections with existing pipeline systems.

Dominion Energy and a consortium of energy partners remain at a standstill on the **Atlantic Coast Pipeline** project as they wait for rulings that could impact the future of the project. Despite numerous setbacks, legal challenges and opposition from environmental advocacy groups, a Dominion Energy official said the company remains confident that construction of the Atlantic Coast Pipeline will be complete by 2021. The case is going to be heard in the Supreme Court and Dominion expects to have oral hearings in late winter, springtime of 2020 with a decision expected no later than June 2020.

Bluewater Gas Storage has proposed a compressor project designed to increase operating pressure for its system. Bluewater's current interconnection with Vector Pipeline does not allow direct delivery of the required amount of customers' natural gas needs due to the varying pressures between the Bluewater and Vector systems (**Bluewater Compression Project**). This has required rerouting the natural gas to other third-party pipelines for delivery, which results in additional costs. A new compressor would increase Bluewater's operating pressure, taking full advantage of the Vector Pipeline interconnection and eliminating excess costs for rerouting the contracted amount of natural gas. Bluewater has submitted a pre-filing application with the FERC for the project and has received a Notice on Intent to Prepare an Environmental Assessment. A final FERC environmental decision is slated for March 1, 2020. Pending FERC and state review and approval, construction is expected to start in mid-2020 with completion in 2021.

Centurion Pipeline L.P. recently held a binding open season to solicit shipper commitments for a proposed crude oil pipeline from Midland, Texas, to Crane, Texas. The **Augustus Pipeline** will connect Centurion's existing Midland Terminal, which currently has approximately 2 million barrels of storage capacity, to multiple long-haul pipelines originating at Crane. The project will include a combination of new and existing pipeline assets and will have an initial throughput capacity of approximately 150,000 barrels per day (BPD). The pipeline is expected to be in service in the fourth quarter of 2020.

PROPOSED PROJECTS & UPDATES

Columbia Gas Transmission awaits final approval from the FERC for the **Buckeye Xpress Project**. The project includes 66.2 miles of 36-inch pipeline and appurtenances; and abandoning approximately 60.8 miles of 20- and 24-inch pipeline and appurtenances to be located in Vinton, Jackson, Gallia, and Lawrence Counties, Ohio and Wayne County, West Virginia. Columbia is proposing to place the project into service in November 2020. Reports indicate that contractors have been selected for the project but there are not official contracts yet.

Columbia Gulf Transmission, LLC has filed an application with the FERC to construct and operate the **Louisiana Xpress Project**. Issuance of the Environmental Assessment from the FERC is expected February 7, 2020 with a final EA decision slated for May 8, 2020. The project will create 493,000 dekatherms per day (Dth/d) of incremental mainline capacity on Columbia Gulf's pipeline system. The incremental capacity created by the project, in conjunction with the utilization of existing capacity, will allow for open access firm transportation service on approximately 850,000 Dth/d of capacity on a north-to-south path from Columbia Gulf's Mainline Pool to a primary point of delivery with Kinder Morgan Louisiana Pipeline LLC

in Evangeline Parish, Louisiana. The proposed facilities in Louisiana include three new compressor stations: the Shelburn Compressor Station in East Carroll Parish, the Red Mountain Compressor Station in Catahoula Parish, and the Chicot Compressor Station in Evangeline Parish. It also includes upgrades at one existing facility, the Alexandria Compressor Station in Rapides Parish. The new facilities will tie into the already existing Columbia Gulf Transmission System. The estimated cost of the project is \$471,588,011.

FERC has approved the **Mainline 100 and Mainline 200 Replacement Project** involving construction and operation of facilities by **Columbia Gulf Transmission, LLC** in Menifee and Montgomery Counties, Kentucky. Columbia proposes replacing the existing Class 2 Mainline 100 and Mainline 200 pipelines with Class 3 pipelines. The replacement of Mainline 100 and Mainline 200 consists of the abandonment and replacement of approximately 2,650 feet of pipeline associated with Mainline 100 and Mainline 200. New pipeline facilities include the construction and operation of two sections of Mainline 100 and two sections of Mainline 200, which represent approximately 0.44 miles of new 30-inch-diameter natural gas transmission pipe,



The advertisement for Sawyer Mfg Company features a collage of images showing various welding tools and equipment. At the top, there are five small images: a metal bucket, a welding torch, a welding mask, a welding torch, and a welding mask. Below these images is a large image of a metal bucket with the Sawyer logo. To the right of the bucket is a welding torch, a welding mask, and a welding torch. Below these images is a large image of a metal bucket with the Sawyer logo. The text "WELDING TOOLS" is prominently displayed in green. Below this, the text "People you know. Equipment you trust. Experience Sawyer." is written. At the bottom, there are logos for Sawyer Mfg Company, Sawyer Fabrication, and a "MADE IN USA" logo. The text "sawyerfab.com" and "918-834-2550" is also present.

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PROPOSED PROJECTS & UPDATES

within Montgomery and Menifee Counties, Kentucky. Construction start was pending as of mid-January 2020.

Dominion Energy Transmission, Inc. has an application before the FERC for their proposed project is known as the West Loop Project, and would provide 150,000 dekatherms per day of natural gas to a new power plant that is being built in Columbiana County, Ohio to replace retiring coal-fired power and help meet the increasing demand for electricity in the Midwest. The **West Loop Project** consists of: 5.1 miles of 36-inch-diameter natural gas pipeline loop in Beaver County, Pennsylvania; modifications to increase flow capacity at the existing Beaver Compressor Station in Beaver County, Pennsylvania; re-wheel two existing centrifugal compressor units at the existing Carroll Compressor Station in Carroll County, Ohio; install a new pig3 launcher at the existing Koppel Junction Site and install a new pig receiver for the new Stitt Gate Site in Beaver County, Pennsylvania; install new control valves at the existing Old Petersburg Regulation Facility in Lawrence County, Pennsylvania; and install cathodic protection for the new pipeline at the existing Darlington metering and regulation (M&R) Station in Beaver County, Pennsylvania. DETI anticipates conducting tree clearing beginning December 2019 and commencing construction activities in April 2020. Construction activities are expected to be complete by October 2020 for an in-service date of July 1, 2021.

Double E Pipeline, LLC (Double E) has received Notice of Environmental Review from the FERC for the Double E Pipeline Project. FERC is expected to release an Environmental Assessment for the project on March 24, 2020 with a final decision expected June 22, 2020. Double E seeks authorization to construct and operate an approximately 116.6-mile, 30-inch and 42-inch diameter trunk-line natural gas pipeline; an approximately 16.3-mile, 30-inch diameter lateral; and meters, mainline block valves, launchers and receivers, and other minor facilities at aboveground sites. The project will interconnect with Kinder Morgan’s planned Gulf Coast Express and Permian Highway Pipelines, and Energy Transfer Partners’ Trans Pecos Pipeline. The Double E Pipeline Project is designed to provide up to 135,000 dekatherms per day of firm capacity to connect growing production areas in the Delaware Basin in southeast New Mexico and west Texas to delivery points near Waha in Reeves and Pecos Counties, Texas. If approved, in-service is slated for 2021.

Driftwood LNG LLC and Driftwood Pipeline LLC, have received a positive Final Environmental Impact Statement from the FERC for the liquefied natural gas (LNG) export facilities and certain interstate, natural gas transmission pipeline facilities in Evangeline, Acadia, Jefferson Davis, and Calcasieu Parishes, Louisiana. The project would

provide gas and processing to produce up to 26 million tonnes per annum of LNG for export. The project facilities include five LNG plants; three LNG storage tanks; three marine berths capable of accommodating LNG carriers of up to 216, each; 74 miles of 48-inch pipeline, 10.6 miles of 42-inch pipeline; 11.3 miles of 36-inch pipeline; and 1 mile of 30-inch lateral pipeline collated with the main pipeline; three compressor stations providing a total of 275,000 horsepower of compression; six pig launchers and receiver facilities, 15 meter stations, and 17 mainline valves.

Eastern Shore Natural Gas has received approval from the FERC to construct, own, operate and maintain the **Del-Mar Energy Pathway Project**. The project includes .9 miles of 16-inch looping pipeline (Kent County, DE), 7.39 miles of 8-inch extension pipeline and new M&R (Sussex County, DE), 0.35 miles 10-inch pipeline extension and upgrade Millsboro pressure control station (Sussex County, DE), 6.83 miles of 10-inch pipeline extension; new M&R (Wicomico and Somerset County, MD), and new Measurement and Regulating Stations (Sussex County, DE; Somerset County, MD). Construction is expected to be getting underway soon with a project in-service date of the 4th quarter of 2021. Reports indicate construction is being handled by Voshell Brothers Welding. Cleveland Inspection Services has the inspection. Jeremy Troise is the Chief Inspector.

Enable Midstream Partners, LP has been issued a Notice of Intent to Prepare an Environmental Impact Statement from the FERC for the company’s proposed **Gulf Run Pipeline** project. The new, 171-mile pipeline in Louisiana would run through Red River, DeSoto, Sabine, Vernon, Beauregard, and Calcasieu Parishes, Louisiana. The proposed new pipeline will run from northern Louisiana to the Gulf Coast, helping deliver U.S. resources to international markets with increasing demand. The project initiated the FERC pre-filing review process in April 2019. Pending receipt of applicable permits and regulatory approvals, construction would begin by 2022.

Enbridge has signed an agreement with shippers to place the **Line 3 replacement pipeline** into service in Canada. The largest project in Enbridge’s history, the Line 3 replacement program features a C\$5.3bn (\$3.96bn) Canadian component and a \$2.9bn American component. Line 3 is a 1,097-mile crude oil pipeline extending from Edmonton, Alberta to Superior, Wisconsin, and is an integral part of Enbridge’s Mainline System. A new 36-inch diameter pipeline will replace the existing 34-inch diameter pipeline along most of the Line 3 route. In the U.S., the replacement pipeline will follow Enbridge’s existing Line 3 route from Joliette, North Dakota to Clearbrook, Minnesota, and then will primarily follow existing pipeline and transmission routes from Clearbrook to Superior,

PROPOSED PROJECTS & UPDATES

Wisconsin. The Wisconsin segment of the project entered service in May 2018, after construction was completed in December 2017. Enbridge has secured all necessary permits for the North Dakota segment of the project. The company said that it will concurrently start construction in Minnesota and North Dakota after securing the required permits and approvals. The remaining portion of the Line 3 Replacement Project is expected to enter service in the latter half of 2020.

Enterprise Products Partners L.P. is considering expanding capacity on the partnership’s **Appalachia-to-Texas (“ATEX”) Ethane Pipeline**. The 1,200-mile ATEX pipeline transports ethane from the Marcellus/Utica Basin of Pennsylvania, West Virginia and Ohio to Enterprise’s natural gas liquids storage complex in Mont Belvieu, Texas, and features pipeline access to petrochemical plants along the Gulf Coast. Subject to sufficient customer commitments, Enterprise would add up to 50,000 barrels per day of incremental capacity through a combination of pipeline looping, hydraulic improvements and modifications to existing infrastructure. The expanded capabilities could be in service by 2022.

Enterprise Products Partners L.P. announced it is extending its ethylene pipeline and logistics system further into South Texas, a leading growth area for new crackers and ethylene derivative plants. The **Baymark Ethylene Pipeline** will originate in the Bayport area of southeast Harris County and extend approximately 90 miles to Markham, Texas in Matagorda County. The pipeline is supported by long-term customer commitments and is scheduled to begin service in the fourth quarter of 2020. The project is a joint venture between Enterprise and Lavaca Pipe Line Company, a subsidiary of Formosa Plastics Corporation, U.S.A. Enterprise will be the majority owner, operator, and commercial manager for the new pipeline. The Baymark Pipeline will provide access to a high-capacity ethylene storage well Enterprise is repurposing at its Mont Belvieu complex, as well as connectivity to the ethylene export terminal at Morgan’s Point.

The staff of the FERC has prepared an Environmental Assessment for the **Putnam Expansion Project**, proposed by **Florida Gas Transmission Company, LLC**. The Putnam Expansion Project would consist of the following facilities in Florida: **West Loop-** install 13.7 miles of 30-inch pipeline loop in Columbia and Union Counties; **East Loop-**

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PROPOSED PROJECTS & UPDATES

install 7.0 miles of 30-inch pipeline loop in Clay and Putnam Counties; **Columbia/Union Receiver Station Relocation**-remove and relocate the existing 30-inch loop pig receiver located at the beginning of the West Loop in Columbia County to a new pig receiver station to be installed at the terminus of the West Loop in Union County; **Clay/Putnam Receiver Station Relocation** - remove and relocate the existing 30-inch-diateter loop pig receiver located at the beginning of the East Loop in Clay County to a new pig receiver station to be installed at the terminus of the East Loop in Putnam County; **Compressor Station (CS) 18**-install new automated valves, over pressure protection device, and station piping at Florida Gas’s existing CS 18 in Orange County, Florida. A final environmental decision from the FERC is expected in February, 2020. If approved, the planned in-service is April 2022.

Gulf South Pipeline Company, LP has an application before the FERC seeking authority to construct and operate certain natural gas pipeline facilities. The proposed project is known as the **Lamar County Expansion Project** and would provide about 200,000 dekatherms of natural gas per day to Cooperative Energy’s generation facility in Lamar County, Mississippi. Issuance of the Environmental Assessment is expected February 18, 2020 with a final decision expected May 18, 2020. Gulf South proposes to construct and operate 3.4 miles of 20-inch-diameter pipeline, a new delivery meter station, and a new 5,000 horsepower compressor station in Lamar and Forrest Counties, Mississippi. The project would allow Gulf South to provide up to 200,000 dekatherms per day of new natural gas firm transportation service from Gulf South’s existing Index 299 pipeline to Cooperative Energy. This service would be primarily utilized for Cooperative Energy’s new 550-megawatt combined cycle gas turbine generation facility. According to Gulf South, the Project would allow Cooperative Energy’s power plant to switch from coal to natural gas as a power source. If approved, the project is slated for construction in the 4th quarter of 2020.

FERC has prepared an Environmental Assessment for **Gulf South Pipeline Co., LP** for the **Index 99 Expansion Project**. The project would include the construction of the following facilities: installation of approximately 22 miles of new 30-inch-diameter pipeline (Index 99L), including cathodic protection along the proposed pipeline, beginning in San Augustine County, Texas and terminating in Sabine County, Texas, at Gulf South’s existing Magasco Compressor Station near Pineland, Texas; installation of a pig receiver at the intersection of the new Index 99L pipeline and Gulf South’s existing Index 99 System, in San Augustine County, Texas; installation of a pig launcher at the intersection of the new Index 99L pipeline and Gulf South’s existing Index 99 System and Index 129 Legacy System (within Gulf South’s existing Magasco Compressor Station),

in Sabine County, Texas; installation of one new mainline valve assembly along the new Index 99L pipeline, in San Augustine County, Texas; installation of approximately 250 feet of new 24-inch station piping and a 24-inch-pressure control valve at the existing Hall Summit Compressor Station in Bienville Parish, Louisiana. Additionally, Gulf South proposes to use 3 contractor/pipe yards (all in San Augustine County, Texas), as well as 9 temporary and 18 permanent access roads during construction of the Index 99 Expansion Project. Gulf South has requested a Certificate of Public Convenience and Necessity from the Commission by March 19, 2020 in order to begin construction in spring 2020 and to place the project into service by October 1, 2020. ▼



Gulf South Pipeline Company, LP has an application before the FERC seeking to construct the **Lamar County Expansion Project**. The project would provide about 200,000 dekatherms of natural gas per day to Cooperative Energy’s generation facility in Lamar County, Mississippi. Issuance of the Environmental Assessment from the FERC is expected February 18, 2020 with a 90-day Federal Authorization Decision Deadline slated for May 18, 2020. Gulf South proposes to construct and operate 3.4 miles of 20-inch pipeline, a new delivery meter station, and a new 5,000 horsepower compressor station in Lamar and Forrest Counties, Mississippi. The Project would allow Gulf South to provide up to 200,000 dekatherms per day of new natural gas firm transportation service from Gulf

PROPOSED PROJECTS & UPDATES

South’s existing Index 299 pipeline to Cooperative Energy. This service would be primarily utilized for Cooperative Energy’s new 550-megawatt combined cycle gas turbine generation facility. According to Gulf South, the Project would allow Cooperative Energy’s power plant to switch from coal to natural gas as a power source. If approved, construction is slated for the 4th quarter of 2020.

Gulf South Pipeline Company, LP is requesting authorization to improve the efficiency and reliability of its **McComb Compressor Station** located on Gulf South’s Index 130 mainline in **Walthall County, Mississippi**. Gulf South proposes to (1) retire in-place one of the seven existing reciprocating compressor units (Unit 3) at the station, as it has suffered mechanical damage; (2) install one new Solar Taurus 70-T10802S Centrifugal Compressor (T70) package, including its required ancillary, auxiliary equipment and yard and station piping; and (3) place three of the six remaining reciprocating compressor units on standby.

Gulfstream Natural Gas System, L.L.C. has received an Environmental Assessment from the FERC for the **Phase VI Expansion Project**. The project would include

the following facilities: a new 16,000 horsepower (hp) compressor unit at Gulfstream’s existing Compressor Station 410 (CS 410) located in Mobile County, Alabama; abandonment in place of approximately 4 miles of existing 36-inch pipeline in Mobile County, Alabama; approximately 4 miles of new 36-inch pipeline originating at the existing Compressor Station 410 and co-locating with Gulfstream Pipeline Lines 60 and 200 in Mobile County, Alabama to replace the segment of pipeline to be abandoned; new metering equipment at Gulfstream’s existing Compressor Station 420 (CS 420) located in Manatee County, Florida; and related auxiliary facilities and appurtenances in Manatee County, Florida. The anticipated construction start is 4th quarter 2021 with an in-service date of 4th quarter 2022.

Jupiter Energy Group has concluded an open season for binding shipper commitments on the Jupiter Pipeline, which is expected to be operational in fourth quarter of 2020. The Jupiter Pipeline will be a 650-mile, 36-inch-diameter crude oil pipeline with origination points near Crane, Texas and Gardendale / Three Rivers, Texas, and an offtake point in Brownsville, Texas. As designed, it will be the only pipeline out of the Permian Basin that will access all three

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deep water ports in Texas (Houston, Corpus Christi and Brownsville) and will have direct access to a fully capable VLCC loading facility off coast at Brownsville. Projected in-service date is 2020.

Kinder Morgan Texas Pipeline (KMTP) and EagleClaw Midstream Ventures are proceeding with the **Permian Highway Pipeline Project** (PHP Project). The approximately \$2 billion PHP Project is designed to transport up to 2.1 billion cubic feet per day (Bcf/d) of natural gas through approximately 430 miles of 42-inch pipeline from the Waha, Texas area to the U.S. Gulf Coast and Mexico markets. KMTP will build and operate the pipeline. The PHP Project is getting underway with an inservice date slated for late 2020.

Magellan Midstream Partners recently held a supplemental open season to solicit additional commitments for transportation volume on the western leg of its refined petroleum products pipeline system in Texas. Binding commitments were due from interested customers on Dec. 20, 2019. Magellan is in the process of expanding the capacity of its west Texas refined products pipeline system to approximately 175,000 barrels per day (bpd) from its current capacity of 100,000 bpd. In addition, the partnership is currently building a new refined products terminal in Midland, Texas. Based on the timing of current construction activities, Magellan expects both the west Texas refined products pipeline expansion and new Midland terminal to be operational in mid-2020. Magellan’s west Texas pipeline system primarily transports gasoline and diesel fuel to demand centers in Abilene, Midland/Odessa and El Paso, Texas as well as New Mexico. The pipeline system also can access markets in Arizona and Mexico via connections to third-party pipelines. Subject to the results of the supplemental open season launched today, Magellan is considering the addition of another 25,000 bpd of capacity on the west Texas pipeline, for a total capacity up to 200,000 bpd, which could be operational by the end of 2021.

Magellan Midstream Partners, L.P. extended the supplemental open season to solicit additional commitments for transportation volume on the western leg of its refined petroleum products pipeline system in Texas. Binding commitments were due by 5:00 p.m. Central Time on Jan. 3, 2020. The extension provided interested shippers additional time to make commitments. Magellan is in the process of expanding the capacity of its west Texas refined products pipeline system to approximately 175,000 barrels per day (bpd) from its current capacity of 100,000 bpd. In addition, the partnership is currently building a new refined products terminal in Midland, Texas. Based on the timing of current construction activities, Magellan expects both the west Texas refined products pipeline expansion and new

Midland terminal to be operational in mid-2020. Magellan’s west Texas pipeline system primarily transports gasoline and diesel fuel to demand centers in Abilene, Midland/Odessa and El Paso, Texas as well as New Mexico. The pipeline system also can access markets in Arizona and Mexico via connections to third-party pipelines. Subject to the results of the supplemental open season, Magellan is considering the addition of another 25,000 bpd of capacity on the west Texas pipeline, for a total capacity up to 200,000 bpd, which could be operational by the end of 2021.

Midcoast Energy, LLC, through an East Texas operating subsidiary, has entered into a commercial agreement with an anchor shipper to support the expansion of its pipeline system to provide transportation of natural gas supplies from East Texas to the Texas Gulf Coast (“CJ Express”). The CJ Express expansion project is expected to be in-service in early 2021. The CJ Express Pipeline will consist of up to 150 miles of 36 inch or larger diameter pipeline, commencing near Carthage in Panola County, Texas and extending south to Midcoast’s Clarity Pipeline in Hardin County, Texas to provide for deliveries to Trunkline Gas (NTX), Gulf South (Area 10), TRANSCO (Zone 2), TETCO (STX & WLA), Florida Gas (Zone 1), Tennessee Gas (100 Line), Kinder Morgan Texas Pipeline, Atmos Texas Pipeline and Channel Industries Gas.

Mountain Valley Pipeline, LLC – FERC is expected to release an Environmental Assessment on February 14, 2020 for the **Mountain Valley Southgate** project. A final decision is slated for May 2020. The MVP Southgate Project is a natural gas pipeline system that spans approximately 74 miles from southern Virginia into central North Carolina.

National Fuel Gas Supply Corporation and Transcontinental Gas Pipe Line Company, LLC has filed an application with the FERC seeking approval for the - **FM100 Project**, proposed by National Fuel, and the **Leidy South Project**, proposed by Transco. The FM100 Project would allow National Fuel to modernize a portion of its existing system and provide an additional 330,000 dekatherms per day (Dth/d) of incremental natural gas transportation capacity, all of which is fully subscribed to Transco. The Leidy South Project would provide 582,400 Dth/d of firm natural gas transportation service from shale producing areas in northern and western Pennsylvania to Transco’s customers in the eastern United States. Issuance of the Environmental Assessment from the FERC is expected February 7, 2020 with a final 90 day decision slated for May 7, 2020. National Fuel and Transco are proposing to construct and operate interdependent natural gas infrastructure projects, which are both located entirely within Pennsylvania. The FM100 Project consists of 29.5 miles of new 20-inch-diameter pipeline in McKean and Potter Counties (Line YM58); 1.4 miles of 24-inch-diameter

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pipeline loop in Potter County (YM224 Loop); 0.4 mile of 12-inch-diameter pipeline in McKean County (Line KL Extension); construction of new Marvindale Compressor Station in McKean County; construction of new Tamarack Compressor Station in Clinton County; construction of the Marvindale Interconnect in McKean County; construction of the Carpenter Hollow overpressurization protection station in Potter County; abandonment in place of a 44.9-mile long portion of the existing 12-inch FM100 Pipeline in Clearfield, Elk, and Potter Counties; abandonment by removal of the existing Costello Compressor Station in Potter County; abandonment by removal of an existing meter station WHP-MS-4317X in Potter County; and installation and abandonment of appurtenances, such as mainline valves and anode beds, associated with the above facilities. The Leidy South Project consists of 3.5 miles of 42-inch pipeline loop in Lycoming County (Benton Loop); 2.5 miles of 36-inch pipeline loop in Clinton County (Hilltop Loop); 6.3 miles of 36-inch meter pipeline loop and related abandonment of a 5.8-mile-long portion of the 23.4-inch Leidy Line A Pipeline (Hensel Replacement) in Clinton County; modification of existing Compressor Station 605 in Wyoming County; modification of existing Compressor Station 610 in Columbia County; construction of new Compressor Station 607 in

Luzerne County; construction of new Compressor Station 620 in Schuylkill County; installation of associated facilities such as mainline valves, communication facilities, and pig launchers and receivers, and other appurtenances. Target in-service date for the project is winter 2021. Issuance off the FERC Environmental Assessment is expected February 7, 2020 with a final FERC decision slated for May 7, 2020.

Natural Gas Pipeline Company of America has an application before the FERC seeking authority to construct, operate, and abandon certain natural gas pipeline facilities. The proposed project, known as the **Gulf Coast Southbound Project**, would expand the southbound transportation capacity of Natural’s Gulf Coast Mainline System by 300,000 dekatherms per day through modifications at five existing natural gas compressor stations in the state of Texas. As part of the Project, Natural would conduct the following activities (all locations are in the state of Texas): install one new electric motor driven compressor unit with a rating of 10,000 horsepower, abandon two existing compressor units, and add cooling equipment and a new filter separator at existing Compressor Station 300 in Victoria County; install one Solar Mars 100 turbine with a rating of 15,900 horsepower, add cooling equipment, and



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replace two filter separators at existing Compressor Station 301 in Wharton County; install two Solar Titan 130 turbines with a rating of 23,470 horsepower each, abandon in place 10 existing compressor units, and add cooling equipment and filter separators at existing Compressor Station 304 in Harrison County; install gas coolers and filter separators at existing Compressor Stations 303 and 394 in Angelina and Cass Counties. Project is pending approvals.

Natural Gas Pipeline Company of America, LLC has an application before the FERC seeking authority to construct, operate, and maintain facilities in Ward, Reeves, and Pecos Counties, Texas to directly connect Natural to the Waha Hub and transport up to 500 million cubic feet per day of natural gas to the Trans Pecos Pipeline header at the Waha Hub. The proposed **Lockridge Extension Pipeline** project includes the following facilities: approximately 16.84 miles of new 30-inch-diameter pipeline; installation of ancillary piping and valves to interconnect the new pipeline extension; relocation of a 30-inch-diameter pig receiver to the southern terminus of the proposed pipeline extension; and installation of a new bidirectional interconnect and appurtenant facilities at the southern terminus of the proposed pipeline extension. Natural anticipates placing all

project facilities in-service no later than the fourth quarter of 2020.

North Baja Pipeline, LLC (TC Energy) has submitted an application to the FERC seeking authorization to construct and maintain its **North Baja XPress Project**. The project consists of installation of a new 31,900 ISO horsepower Titan 250 compressor unit at its existing Ehrenberg Compressor Station located in La Paz County, Arizona; and modifications to the infrastructure at North Baja's existing El Paso Meter Station in La Paz County, Arizona, and Ogilby Meter Station in Imperial County, California. Construction is expected to start in October of 2021, with an anticipated in-service date of November 2022.

Northern Natural Gas has submitted a pre-filing request with the FERC for its proposed **Northern Lights Expansion 2021** project. Northern plans to have the project facilities in-service November 1, 2021, to meet the contractual in-service date. The facilities are required to meet customer requests received in the open season for Northern Lights 2021 – Ventura North. The proposed facilities, which are subject to change as the pre-filing process progresses, initially include: (1) 8.30 miles of 30- and 36-inch-diameter

PROPOSED PROJECTS & UPDATES

mainline loops and extensions; (2) 13.30 miles of branch line loops and extensions – ranging in size between 6 and 30 inches in diameter; (3) one new compressor station and modifications at two compressor stations; and (4) modifications at an interconnect; all located in Minnesota. If approved by the FERC, construction is slated for Spring 2021.

The staff of the FERC has prepared an Environmental Assessment for Northern Natural Gas Company for the **Palmyra to South Sioux City A-Line Abandonment Project**. The proposed Palmyra to South Sioux City A-Line Abandonment Project is in Nebraska and includes the following facilities: Abandonment in place of 44.2 miles of 20-inch-diameter and 14.8 miles of 16-inch-diameter mainline in Otoe, Lancaster, Saunders, and Dodge Counties (M581A); abandonment in place of 58.7 miles of 16-inch-diameter mainline in Dodge, Burt, Thurston, and Dakota Counties (M570A); construction of 1.7 miles of new 24-inch-diameter pipeline loop in Otoe County (Palmyra North D-Line Loop); construction of 2.5 miles of new 24-inch-diameter pipeline loop in Dodge County (Fremont North D-Line Loop); construction of a new pig^[2] launcher and two valve sites within the existing Palmyra Compressor

Station at the beginning of the Palmyra D-Line Loop and a pig receiver and one valve site at the end of the pipeline loop; and construction of a new pig launcher and one valve site within the existing Fremont Compressor Station and one valve site at the end of the Fremont North D-Line Loop.

Northern Natural Gas Company will prepare an Environmental Assessment that will discuss the environmental impacts of the **South Sioux City to Sioux Falls A-Line Replacement Project**. The project will allow Northern to abandon in-place approximately 79 miles of its 14-inch M561A branch line (A-line) and, to replace the lost capacity, install 84.15 miles of 12-inch A-line between South Sioux City, Nebraska, and Sioux Falls, South Dakota. The majority of the replacement A-line will be installed within a 25-foot offset from the existing A-line with the exception of three areas – the replacement pipeline route will (1) be installed around Elk Point, South Dakota, to avoid multiple crossings of Interstate 29; (2) deviate from the existing pipeline where the pipeline crosses the Missouri River in Dixon County, Nebraska; and (3) deviate from the existing pipeline where the new A-line ties into Northern's B-line at the southern end of the route near Harrisburg, South Dakota. In addition to the A-line replacement, Northern

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proposes to replace its Ponca branch line. The 0.2-mile, 2-inch-diameter Ponca branch line, which currently ties into the A-line to be abandoned, will be abandoned in-place and replaced with two miles of 3-inch branch line. The extended length and larger diameter are necessary in order to tie the new Ponca branch line into the replacement A-line at a location optimal to meet required pressure profiles. The line will parallel approximately 1.5 miles of the existing A-line and 0.5 mile of the existing Ponca branch line, and terminate at Northern's existing Ponca town border station. Following the abandonment of the pipeline and the restoration of the land used for the pipeline project, Northern intends to offer the abandoned pipeline to a salvage company. The salvage company will be required, by contract, to comply with federal regulations regarding land restoration and sensitive environmental resource protection. Northern plans to file its section 7 application for approval to start the project in July 2020. Northern is anticipating that approval for the project, subject to Commission review, will occur in March 2021. The facilities are scheduled to be placed into service November 1, 2021.

The staff of the FERC has prepared a favorable Environmental Assessment (EA) for the **Bushton to Clifton**

A-line Abandonment Project involving construction and operation of facilities by **Northern Natural Gas Company** in Clay, Cloud, Ellsworth, Lincoln, Ottawa, and Rice counties in Kansas. Northern is proposing to abandon in-place the A-line facilities consisting of approximately 92.76 miles of 26-inch pipeline on Northern's M640A and M630A and 15.74 miles of 24-inch-diameter pipeline on its M640J pipeline systems and other appurtenant facilities. Northern proposes to construct and operate an additional natural gas-driven ISO rated 11,152 horsepower Solar Mars turbine unit (Unit No. 6) at the existing Tescott compressor station located in Ottawa County, Kansas. The unit will tie into station piping that is connected to Northern's existing mainlines. Approximately 85 feet of 24-inch-diameter station piping, approximately 40 feet of 36-inch station piping, and approximately 80 feet of 8-inch station piping will be removed to accommodate tie-ins. After abandonment, Northern will continue to operate the other pipelines in its right-of-way and maintain its pipeline easements with the exception of a segment of Jline that will be abandoned in place. A final FERC decision is expected March 16, 2020.

Outrigger Energy II announced that it has entered into a long-term definitive gas gathering and processing

PROPOSED PROJECTS & UPDATES

agreement with XTO Energy, Inc. to service XTO's production in Williams County, North Dakota. The gathering system will comprise a 70-mile, 20- and 24-inch diameter, rich gas pipeline originating in eastern Williams County and terminating at a new 250 MMcfd cryogenic gas processing plant located west of Williston, ND. Plans are also underway for a plant expansion of up to an additional 200 MMcfd, for total gas processing capacity of 450 MMcfd. Outrigger will construct, own and operate the cryogenic processing plant and gathering system. The high efficiency plant features ethane recovery and rejection capabilities that will provide direct market access to the Northern Border Pipeline system for residue gas and the ONEOK NGL pipeline system for natural gas liquids. Future NGL fractionation facilities may be added to provide finished NGL products for local markets.

The proposed **ACE Pipeline System** will transport crude oil from the market hub in St. James Parish, Louisiana, to downstream refining destinations in Belle Chasse, Meraux, and Chalmette, Louisiana. The pipeline will provide safe, reliable transportation of crude oil and help Louisiana and its refineries have access to growing energy resources in the United States. The current route will connect the St. James market center to Harvest Midstream's existing

CAM Pipeline. The project is being developed by three joint venture partners, **Phillips 66 Partners, Harvest Midstream and PBF Logistics**. Phillips 66 will construct the new-build segment of the pipeline system and Harvest will operate the system when completed. The pipeline is expected to be in service in the second half of 2020.

Phillips 66 and Bridger Pipeline LLC have formed a 50/50 joint venture, **Liberty Pipeline LLC**, and are proceeding with construction of the **Liberty Pipeline**. The 24-inch pipeline will provide crude oil transportation service from the Rockies and Bakken production areas to Cushing, Oklahoma. From Cushing, shippers can access multiple Gulf Coast destinations, including Corpus Christi, Ingleside, and Houston, Texas. Liberty is underpinned with long-term shipper volume commitments. Initial service on the pipeline is targeted to commence as early as the first quarter of 2021, subject to receipt of applicable permits and regulatory approvals.

Phillips 66 and Plains All American Pipeline announced that they have formed a 50/50 joint venture, **Red Oak Pipeline LLC**, and are proceeding with construction of the **Red Oak Pipeline** system. The pipeline system will provide

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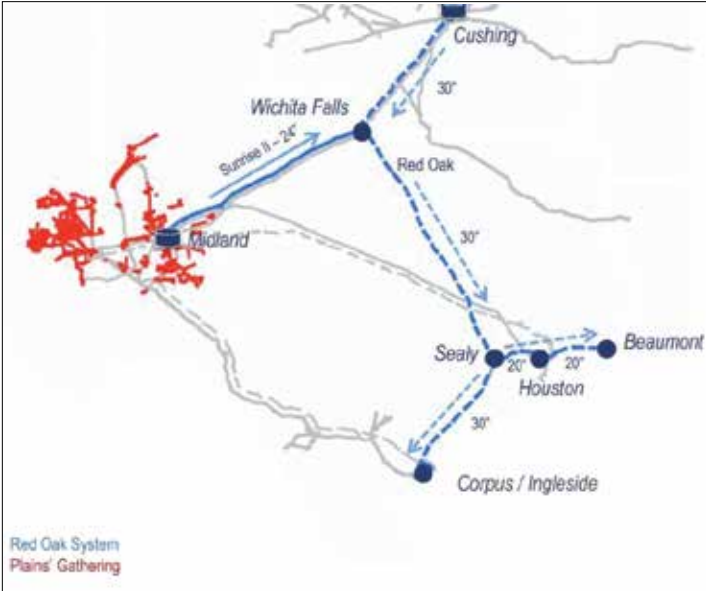
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PROPOSED PROJECTS & UPDATES

crude oil transportation service from Cushing, Oklahoma, and the Permian Basin in West Texas to Corpus Christi, Ingleside, Houston and Beaumont, Texas. Initial service from Cushing to the Gulf Coast is targeted to commence as early as the first quarter of 2021, subject to receipt of applicable permits and regulatory approvals. The Red Oak joint venture will lease capacity in Plains' Sunrise Pipeline system, which extends from Midland to Wichita Falls, Texas. The joint venture plans to construct a new 30-inch pipeline from Cushing to Wichita Falls and Sealy, Texas. From Sealy, the joint venture will construct a 30-inch pipeline segment to Corpus Christi and Ingleside and a 20-inch pipeline segment to Houston and Beaumont. Where feasible, Red Oak will utilize existing pipeline and utility corridors and advanced construction techniques to limit environmental and community impact. Plains will lead project construction on behalf of the joint venture, and Phillips 66 will operate the pipeline. The project is expected to cost approximately \$2.5 billion. ▼



An affiliate of **Plains All American Pipeline** recently held a binding open season for long-term commitments for light crude oil transportation service on its **Western Corridor Pipeline System**. The service will originate in northern Montana for delivery to Gulf Coast markets. Subject to sufficient commitments from shippers and receipt of any necessary permits and regulatory approvals, the existing System capacity will be expanded by up to an additional 70,000 barrels per day, and service on the expanded System is expected to begin in the second quarter of 2021.

Portland Natural Gas Transmission System (PNGTS) is proposing **Portland XPress (PXP)** to increase New England's natural gas supply without the need for construction outside existing facilities. Adding to PNGTS' existing capacity, PXP will be capable of transporting

approximately 180,000 dekatherms a day to areas where it is in great demand. Enhancing PNGTS' existing capacity through Portland XPress will be achieved via some optimization modifications at an existing compressor station in Westbrook, Maine, a horsepower addition to an existing compressor station in Eliot, Maine, and some metering upgrades at the existing Dracut, Massachusetts, meter station. All three sites are jointly owned by PNGTS and Maritimes and Northeast Pipeline (MNE), and operated by M&N Operating Company, LLC (MNOC). The proposed project will be completed in three phases, with the last expected to go into service by November 2020. All work will be conducted on existing property. Construction will only be associated with the final phase, which is slated to go into service in 2020.

Tennessee Gas Pipeline Company, LLC has received a favorable Environmental Assessment from the FERC for the **261 Upgrade Project**. Tennessee Gas is requesting authorization to provide 72,400 million cubic feet per day (Mcf/d) to subscribed project shippers. Tennessee Gas also requests approval to upgrade facilities at Compressor Station 261 to increase reliability to existing shippers. The project includes modifications to existing facilities and installation of new pipeline in Hampden County, Massachusetts. The proposed 261 Upgrade Project includes the following facilities: Horsepower Replacement Project - abandon and replace two existing turbine compressor units with one new turbine compressor unit and auxiliary facilities; and abandon and replace the emergency generator; a looping project - install 2.1 miles of 12-inch pipeline loop adjacent to Tennessee Gas pipelines; install pig launcher and receiver facilities and tie-in piping; and abandon and remove an inactive 6-inch-diameter pipeline. Pending receipt of all required permits, construction will begin in March 2020 for the Looping Project and May 2020 for the HP Replacement Project. The projects are expected to be in service in November 2020.

Texas Eastern Transmission, LP has an application for its proposed **Middlesex Extension Project** to construct, install, own, operate and maintain 1.55 miles of 20-inch-diameter pipeline, a new metering and regulating station, 0.20 miles of 16-inch-diameter interconnecting piping, and related appurtenances and ancillary facilities to provide natural gas transportation to interconnects with Transcontinental Gas Pipe Line Company, LLC's (Transco) Mainline system and Transco's existing Woodbridge Lateral for ultimate delivery to the 725-Megawatt natural gas-fueled combined-cycle Woodbridge Energy Center owned by CPV Shore Holdings, LLC and located in Woodbridge Township, New Jersey. In-service date is slated for June 2021.

PROPOSED PROJECTS & UPDATES

Texas Eastern is requesting authorization from the FERC excavate, elevate, and replace certain segments of its pipelines that traverse the Marshall County Coal Company's (Marshall Coal) Mine Panels 19E and 20E, located in Marshall County, West Virginia (**Marshall County Mine Panel 19E and 20E Project**). Texas Eastern proposes to excavate and elevate pipeline segments of its Lines 10, 15, 25, and 30, that range from 30-inch to 36-inch diameter and to monitor stress and strain levels on the pipelines from potential ground subsidence due to Marshall Coal's scheduled longwall mining activities. Concurrent with pipeline elevation, portions of Lines 10 and 15 would be replaced with new pipe to accommodate a minimum Class 2 design. Texas Eastern would also perform maintenance activities on segments of Lines 25 and 30. Marshall Coal recently informed Texas Eastern that longwall mining activities for Mine Panel 20E may now begin as early as August of 2021. As such, Texas Eastern would need to commence activities to protect its pipelines that traverse Mine Panel 20E concurrent with planned activities to protect its pipelines that traverse Mine Panel 19E (longwall mining activities in Mine Panel 19E are anticipated to begin in October 2020) in order to ensure timely stabilization of the pipeline segments above ground

for the duration of the longwall mining activities scheduled to take place at both Mine Panels. Completion of longwall mining activities and potential subsidence is anticipated in December 2020 for Mine Panel 19E and in October 2021 for Mine Panel 20E. As such, Texas Eastern is seeking to amend the timing set forth in the Application for completion of project activities from October 2021 to October 2022, prior to the start of Texas Eastern's winter heating season.

Texas Eastern is requesting authorization from the FERC to **replace the four existing compressor** units at the **Lilly Compressor Station** located in **Cambria County, Pennsylvania**, with two new, more efficient gas turbines to comply with future air emission reduction requirements in Pennsylvania on this portion of Texas Eastern's system. Texas Eastern requests that the Commission issue an order granting the **authorizations requested by August 1, 2020**.

Texas Eastern Transmission, LP has filed an application with the FERC seeking approval for its proposed **Middlesex Extension Project**. The project would include construction, installation, operation and and maintenance of 1.55 miles



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PROPOSED PROJECTS & UPDATES

of 20-inch pipeline, a new metering and regulating station, 0.20 miles of 16-inch interconnecting piping, and related appurtenances and ancillary facilities to provide natural gas transportation to interconnects with Transcontinental Gas Pipe Line Company, LLC's (Transco) Mainline system and Transco's existing Woodbridge Lateral for ultimate delivery to the 725-Megawatt natural gas-fueled combined-cycle Woodbridge Energy Center owned by CPV Shore Holdings, LLC and located in Woodbridge Township, New Jersey. If approved, in-service is slated for June 2021.

Haynesville Global Access Pipeline LLC, a subsidiary of Tellurian Inc., is proposing to construct, own and operate an approximately \$1 Billion project with 160 miles of 42-inch pipeline (**Haynes Global Access Pipeline**) and one 23,000 hp compressor station. This proposed pipeline will be capable of transporting upwards of 2 Billion cubic feet of natural gas per day from supply sources originating in the Haynesville / Bossier Shale area. A formal FERC application is expected to be filed in 2020.

Texas Eastern Transmission, L.P. has an application before the FERC seeking authority for the **Cameron Extension Project** in Louisiana. The staff will prepare an Environmental Assessment (EA) for the project. Issuance of the EA is expected March 9, 2020 with a final decision on June 7, 2020. The project would provide 750 million cubic feet per day of firm transportation service. FERC is preparing an Environmental Assessment of the project and it is expected to be available March 9, 2020 with a final decision expected June 7, 2020. Texas Eastern proposes to construct and operate a new compressor station (East Calcasieu Compressor Station) in Calcasieu Parish, Louisiana. The new compressor station is comprised of one 30,000 ISO-rated horsepower, natural gas-driven turbine compressor unit and related appurtenances. The project would also consist of three new delivery meter and regulatory stations in Cameron, Beauregard, and Jefferson Davis Parishes, Louisiana; installation of 0.2 mile of 30-inch piping to interconnect with TransCameron Pipeline, LLC's pipeline system in Cameron Parish, Louisiana; installation of miscellaneous equipment at the Gillis Compressor Station in Beauregard Parish, Louisiana; modifications to existing internal pipeline inspection launcher and receiver facilities and two new bypass facilities at existing sites along Texas Eastern's Line 41; and other related auxiliary facilities and appurtenances.

Transcontinental Gas Pipe Line Company, LLC has filed an application with the FERC seeking authority to construct and operate its **Leidy South Project**. An Environmental Assessment is expected from the FERC on February 7, 2020. The project would expand Transco's existing pipeline system to enable it to provide an additional 582,400 dekatherms per day of firm transportation service to three shippers, and

abandon a small portion of its existing facilities. Transco seeks authorization for the construction and operation of approximately 8.7 miles of 36-inch-diameter looping facilities and the related abandonment of 5.8 miles of 23.375-inch pipeline in Clinton County, Pennsylvania; construction and operation of approximately 3.6 miles of 42-inch looping facilities in Lycoming County, Pennsylvania; the addition of 45,87 horsepower (hp) at two existing compressor stations Wyoming and Columbia Counties, Pennsylvania; and construction and operation of two new compressor stations totaling 78,801 hp in Luzerne and Schuylkill Counties, Pennsylvania. The estimated cost of the Project is \$531.12 million. If approved, in-service is slated in time for the 2021-22 winter heating season.

Venture Global LNG, Inc. has made a pre-filing request with the FERC to build the **Delta LNG Project and the Delta Express Pipeline**. The project would involve the construction of a liquefied natural gas (LNG) export terminal in Plaquemines Parish, Louisiana and two parallel, 42-inch pipelines in a single approximately 285-mile-long right-of-way in 14 parishes in Louisiana. If approved, the project has an anticipated construction start date of December 2021 with a slated in-service date of November 2024.

Whistler Pipeline LLC is planning to construct 450 miles of 42-inch pipeline from Waha, Texas, to the Agua Dulce area in South Texas. An approximately 50-mile 36-inch lateral will provide connectivity for gas processors in the Midland Basin. The pipeline will have transportation capacity of 2 billion cubic feet per day (Bcf/d). Whistler Pipeline has contracted for the supply of the entirety of 42"/36" steel pipeline needed to complete the project and is on schedule in its completion of survey along the planned route and acquisition of appropriate permits for a summer 2021 in-service date. Construction will commence in 2020.

Joint venture partners **WhiteWater Midstream**, alongside Agua Blanca lead investor First Infrastructure Capital, announced final investment decision to proceed with the expansion of the Delaware Basin Agua Blanca System. The Agua Blanca system boasts a capacity of 1.4 billion cubic feet per day (bcfd) and comprises approximately 90 miles (145 kilometers) of 36-inch-diameter pipeline and 70 miles (113 kilometers) of smaller-diameter pipelines traversing Culberson, Loving, Pecos, Reeves, Ward and Winkler counties and serving the Waha gas hub. The expansion includes a 42-inch trunkline that more than doubles system capacity to over 3 billion cubic feet per day of natural gas across Culberson, Loving, Pecos, Reeves, Winkler and Ward counties. The expansion is supported by multiple 10 year, take-or-pay transportation agreements.

Williams reported that the FERC has issued a Certificate of Public Convenience and Necessity authorizing the **North-**

PROPOSED PROJECTS & UPDATES

east Supply Enhancement project – an expansion of the existing Transco natural gas pipeline designed to serve New York markets in time for the 2020/2021 winter heating season. The project is still pending approvals from New York and New Jersey. All approvals have been received from Pennsylvania. Construction will include: 10.2 miles of 42-inch pipeline loop in Lancaster County, Pennsylvania (the Quarryville Loop); 3.4 miles of 26-inch pipeline loop in Middlesex County, New Jersey (the Madison Loop); 23.5 miles of 26-inch pipeline loop in Middlesex and Monmouth Counties, New Jersey, and Queens and Richmond Counties, New York (the Raritan Bay Loop, which consists of 0.2 mile of pipe in onshore Middlesex County, New Jersey; 6.0 miles of offshore pipe in New Jersey waters; and 17.3 miles of offshore pipe in New York waters); modification of the existing Compressor Station 200 in Chester County, Pennsylvania; construction of new Compressor Station 206 in Somerset County, New Jersey; and ancillary facilities.

Williams Transco reported that the FERC has issued a Certificate of Public Convenience and Necessity authorizing the **Southeastern Trail Expansion Project** designed to serve Transco pipeline markets in the Mid-Atlantic and Southeastern U.S. in time for the 2020/2021 winter heating season. The Southeastern Trail expansion project consists

of approximately 7.7 miles of 42-inch pipeline looping facilities in Virginia, horsepower additions at existing compressor stations in Virginia, and piping and valve modifications on other existing facilities in South Carolina, Georgia, and Louisiana. Williams Transco was just getting underway with construction on January 15, 2020. The project has a targeted in-service commitment of November 2020.

Coastal GasLink continues to progress construction across the 670-kilometre project route from Kitimat to Chetwynd, with more than 1,000 women and men, many of them local and Indigenous, expected to be undertaking clearing, grading, continued workforce accommodation establishment and other activities in January. Employment numbers are expected to grow as activities ramp up, with pipe assembly beginning this summer and continuing through 2022. The project continues to deliver benefits to Indigenous and local communities; \$870 million in contracts have been awarded since Final Investment Decision in October 2018. To November 2019, the most current figures available, the project has generated more than \$107 million in local spend and more than \$77 million in indirect economic spinoffs. Figures for total 2019 are still being compiled. The \$40-billion LNG project represents the largest single private sector investment in Canadian history.



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Minnesotans for Line 3

Show Strong Support

While many people sent out greeting cards over the recent holiday season, 7,494 supporters of the Enbridge Line 3 Replacement project from across Minnesota also sent supportive comments to the Minnesota Public Utilities Commission (PUC). These comments urged the PUC to determine that the revised Environmental Impact Statement (EIS) for the Line 3 Replacement project is adequate. The PUC had ordered the project's EIS to be revised to analyze any potential impacts into the Lake Superior watershed from a potential spill. The additional analysis determined it was unlikely any "measurable amount of oil would reach Lake Superior."

"We have finally reached what must be the end of a long, rigorous, and thorough review of this critically important energy infrastructure project," said Abby Loucks, a member of Minnesotans for Line 3, the advocacy support group that helped coordinate and gather the comments. "This project has answered ev-

ery question, passed every test, and is supported by tens of thousands of people across Minnesota. We are confident the PUC will do the right thing and allow the permitting process to move forward so workers to get ready to build this essential energy project."

The review of Line 3 has gone on for more than four years and the Minnesota Public Utilities Commission has four times unanimously voted to approve it. Legal challenges to the EIS required the PUC to order additional review and analysis to be incorporated into the document. The PUC will review information received via the public review process and decide if the updated EIS is adequate to reinstate the previously approved route permit and certificate of need. After the PUC re-instates its adequacy determination for the EIS and again approves the route permit and the certificate of need, state and federal agencies are expected to make decisions about permits for Line 3 later this year.

North America

Expected to Lead Global Crude Oil Pipeline Additions

According to reports, construction of new crude oil pipelines in North America will account for the majority of the planned oil pipeline length additions globally between 2019 and 2023.

North America will contribute some 51 percent to all new crude oil trunk or transmission pipeline additions through 2023, with expected combined new-build crude oil pipeline length of 14,344 kilometers (8,913 miles) by that year.

In North America alone, as many as 29 new-build crude oil pipelines are expected to begin operation by 2023. Of those, 16 pipelines are planned projects and 13 are in early-stages of development.

A lot of crude oil pipelines are planned in the Permian in the U.S., where crude oil production outpaced take-away capacity in 2018.

Construction projects are expected to continue through 2021 and beyond. The pipelines are expected to ease the Permian takeaway capacity constraints as they move crude oil throughout Texas and Louisiana.

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Freeport LNG

Achieves Start of Commercial Operations for Second Liquefaction Train

Freeport LNG announced the start of commercial operations for the second liquefaction train, of its three train facility, with the commencement of gas deliveries from BP under its 20 year tolling agreement with Freeport. Freeport LNG's Train 1 began commercial operations last month, with the commencement of Osaka Gas' and JERA's tolling agreements.

"We are thrilled to now be providing service to BP, in addition to Osaka Gas, and JERA," said Michael Smith, Founder, Chairman and CEO, Freeport LNG. We are also especially pleased with the performance of our electric motor drive liquefaction units. Freeport's electric drive motors not only reduce emissions by over 90% relative to other plants which use combustion turbines, they should also require less maintenance with less downtime. The performance test on Train 2 was completed in only 37 days after first gas was delivered to the liquefaction facilities, down from 107 days on Train 1. We are extremely pleased with the current operational efficiency and performance from both trains."

Construction on Freeport's Train 3 is essentially complete. Gas has been introduced to the pre-treatment facilities and the Company expects Federal Energy Regulatory Commission (FERC) approval to bring gas to the liquefaction site next month. Train 3 remains on track for a commercial start date in May.



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HEARD ON THE LINE

Congratulations from Leslie Equipment Company to **Jimmy Crotts** of Appalachian Pipeline Contractors for serving as the 2019 PLCA President!



Bradley Newcomb, son of Gary and Monica Newcomb recently enjoyed duck hunting with his dad. Gary says Bradley had his limit in about 10 minutes.



Jimmy Lee Davis Sr and grandson, Mason Lee Davis



Chief Forbes



Backfill Crew - Precision Pipeline - Hico, Texas

HEARD ON THE LINE

Energy Transfer Inspectors on Spread 4 of the Lone Star Express II Team up with Precision Pipeline on Fundraiser for a Local VFW Post 4136 in Eastland, TX

The inspectors on Spread 4 of the Lone Star Express II project and the employees for Precision Pipeline took up collections for two weeks and raised \$5000.00 for the Karl & Tanner Boyd VFW Post 4136 in Eastland, Texas. The Lone Star Express II is an NGL that is being constructed from Wink, Tx, stretching to Morgan, Tx. Spread 4 runs from Cisco, Tx to Morgan, Tx.

The VFW Post 4136 is a small post that needs some minor repairs, exhaust fans and plumbing issues. The veterans at this post made everyone feel welcome when they walked in the door. They actually stopped all activity one night to pray for a grandson of one of the inspectors that was born premature.

All of the veterans that were blessed enough to make it home to the great country that they protected and love, need us to show them the respect and love that they showed us. All of our veterans gave some, and some gave all. There is no way that the citizens of the USA can come close to repaying our Vets for what they have sacrificed. Thank you all for your service and for those who continue to serve to help make our country great.



Pipeline ladies in Abilene, Texas enjoy fun painting together!

PIPELINE PHOTOS



PIPELINE PHOTOS

Danny Hufferd, 77, of Midvale, Idaho passed away at St. Alphonsus Hospital, Nampa, Idaho on Friday November 29th. Danny was a beloved husband, father, grandfather, great-grandfather and brother. He is survived by his wife Mar; his six children, Bruce, Penny, Angel, Donald, Darrcy and David; his 16 grandchildren, 10 great grandchildren and two siblings, Portia and Donny. He was preceded in death by his parents, Daniel and Ruby and two Brothers, Gene and Mickey. Danny Hufferd was born November 24th, 1942 in Rockford, Illinois to Daniel and Ruby Hufferd. Soon after his birth the family moved to Iola, Kansas where he grew up as a farm boy and matured into a lovely young man. He often spoke of the good times he had as a child, going noodling and playing in the creek with the Sinclair boys. He loved his job and worked hard all his life. He worked a total of 57 years as a pipeliner along side his best bud/brother, Tommy Hardwick. Danny started pipelining in 1962 as laborer for R. H. Fulton Co. Danny worked his way up to bending machine operator in 1963 and soon after, he was sideboom operator. In 1968 Danny started as bending engineer. In 1978 he was a superintendent for Henkels and McCoy. After the project he went back to engineering until 2002. In 2002 he became assistant superintendent for Gregory and Cook Construction. He was assistant superintendent for the remainder of his career, working his last pipeline project for Price Gregory International in Opelika, Alabama in 2017. He was assistant to his longtime friend Tommy Hardwick and along with the other assistant superintendent, Jim Waite - they were a great team. Other companies Danny worked for are: Great Plains, Associated, Green Construction, Artic Construction, Michael Curran & Associates, Bannister Pipeline and Mid Mountain Construction. During his 57 years he stayed busy working for 27 companies including the time he spent working on the Alaska pipeline. Danny is a member of I.U.O.E. Local 627, Tulsa, Oklahoma. After completion of the Sabal Trail Project in Alabama, Danny chose to stay home to be with his wife Mary. The pipeline industry lost a great man full of knowledge and wonderful stories. He loved his bologna sandwiches and when traveling with his young family they would stop at rest area's and enjoy a bologna sandwich. While Danny enjoyed them, the kids not so much. Danny enjoyed traveling and just taking a drive to look at farm land and equipment along the way. When shopping, his belief was if it's not made in the U.S.A., don't buy it! He truly enjoyed meeting people and getting to know them. He could kick up a conversation with anyone and when parting he always thought of that person as a friend. When Danny was home from working the pipeline you would most likely find him in his wood shop building something for Mary, his children, grandchildren or great grandchildren. He was so talented. He built picture frames, hope chests, chairs, bookcases, dressers and so much more. The last couple of years he made and donated a tack box to the winner of the Julie Kerner Memorial award for the Washington County Fair. He enjoyed time on his new tractor farming. He worked hard and took great pride in taking care of his 17 acres. Danny cherished his wife, children, grandchildren and great grandchildren. They were all very important to him. He loved his little Sadie girl and enjoyed taking her to her doggie spa days. Oh Danny Boy, you will be greatly missed and will have a special place in our hearts

forever. At Danny's request there will be no service.



Cameron Cherb, 35, of Amarillo passed away January 1, 2020. Cameron was born January 30, 1984 in Amarillo to Johnnie and Dianna Cherb. He attended Randall High School. Cameron was an oilfield pipeliner and he loved his job. He enjoyed watching football and was an avid Dallas Cowboys fan. His son Dylon said, "One of my favorite memories is going to watch the Dallas Cowboys and Seattle Seahawks game with my dad!" Cameron cherished time spent with his family, especially playing video games with Dylon. His hobbies included cooking in the backyard, bass fishing and spending time with friends and family. Cameron was preceded in death by his mom, Dianna Cherb; grandparents, C.D. and Charlotte Byrd, and Bobbie and Freddie Franklin; and an uncle, Larry Byrd. He is survived by his dad, Johnnie Cherb; son, Dylon Cherb; two sisters, Deana Lucero and Angie Wing and husband David; wife to be and children, Kassie Conklin, Kaigan and Easton; a niece, Kalie Lucero; an aunt, June Cherb; his extended family, Amanda McBride, Chris McBride, Bailey Hedrick, Tyler Bostick and Ricky D. Hill; numerous friends and his beloved dog, Cruiser.



Timothy James Comardelle, Sr., passed away on December 22, 2019, at the age of 61. He will be dearly missed by his beloved wife of 40 years, Victoria, and by his son, Timothy Jr. Known as Timothy, Timbo, little Timmy, Poppy and Pops, he will be remembered as a hard worker; a family man; a good friend; and a great husband, father and grandpa. He will be distinctly remembered for the size of his heart for the people that he loved. He would do anything big or small and was the reliable foundation for his family no matter the circumstances. His son, Timothy Jr., says, "My father is my hero, my best friend and my Pops. I am proud to have him as my Pops and that he filled my life with love and guidance. He will forever be in my heart!" He dearly loved his grandson, Hunter. He has made such an enormous impact on his life that Hunter as taken to mimicking him due to the amount of time they spent together and close bond. He loved his two boxer dogs, whom he referred to as "His girls": Sha' and Bijoux, both of whom were by his side daily. Born and raised on the Westbank, a resident of Marrero most of his life. Having finished technical school at a young age, he began a career as a pipeline welder in the oil and gas industry spending the last 20 years of his career in the Pipeliners 798 Union. He was also a devout catholic who loved God above all else. Most of his leisure time was spent with his immediate family taking rides admiring nature and animals, of whom he as a huge lover. We would like to give special thanks to all who were with him in his final days on earth.

Joseph F. Dugan, 72, of Danville, passed away December 27, 2019. He was born in Danville, March 10, 1947, a son of the late Walter and Margaret (O'Gara) Dugan. He was a graduate of Mount Carmel Area High School. Joseph served in the U.S. Army from 1966 until 1968. He was employed as a pipeline

worker until his retirement. He was a member of Our Lady of Mount Carmel Parish, the Knights of Columbus Council 628, Fraternal Order of Eagles Aerie 464 and Veterans of Foreign Wars Post 2110, all of Mount Carmel. Joseph enjoyed living life. He was an avid sail boater and motorcyclist. Surviving are a grandson, Shawn Schreffler; two brothers, Thomas Dugan and his wife, Barbara, of Mount Carmel, and Richard Dugan, of Bensalem; two sisters, Sister Margaret (Pius) Dugan, IHM, of Lititz, and Anne Marie Bartol and her husband, Giles, of Shamokin; and nieces and nephews. In addition to his parents, he was preceded in death by a son, Shawn Dugan.



Graveside services for **Kenneth Neil Grace**, 67, of Nacogdoches, were held on January 9, 2020 at Simpson Campground Cemetery with Bro. Steven Smith, officiating. Kenneth Neil Grace, Jr. was born in Ft. Worth, Texas on June 27, 1952. His friends, loved ones and Debra called him Neil. All of his grands called him Pawpaw. He was a loving man. Neil was born to his father, Kenneth Neil Grace of Oklahoma. His father had a previous marriage which gave him Neil's first born, sweet, big sister, Linda Grace Young. Later in life, Linda gave Neil a special niece, Julie Willard. Neil's dad married his mother, Dealva "Dee" Holmes Grace King. She was born in Alva, Oklahoma. She is best known as "Granny Dee". Neil was her first born and he was proud, strong minded and grew into a wonderful man. He also had three brothers, Jerry Dee Grace, who has passed away; Joseph Glen Grace (known as Joey) who had also passed away but had a daughter, Kristina and two grandsons, Dorian and Giovanni; and Tracy Allen Grace who had two wonderful children, Brittany Grace and Timothy Grace. After the divorce of Neil's parents, his mom married Raybon Earl King and his dad married Ann. Ann had Neil's wonderful and blessed little sister, Shannon Grace who married Patrick Michaels and gave Neil 3 more beautiful nieces, LeAnne, Lauren, and Morgan. Another plus to all this was Neil's stepsister, Carla and her husband, Johnny. Life dealt no favors to Neil. Growing up rough and tough, he decided to join the Navy. In 1972, while on leave, he met a young, cute, woman of his dreams, Debra June King. The two fell in love and began their adventures, of which most folks can only dream of. They traveled (by hitch hiking), seeing the world through children's eyes and had a blast. Neil taught Debra so much, and she loved him endlessly. About 4 years into their love affair, Debra planned their son, Mack Dillon Grace, in 1976. He was by far the best thing they ever did together, and still is. Mack is a great dad. He gave them Mack Dillon Grace, Jr., Hannah Klaire Grace, and Falon Elliot Grace and their wonderful daughter-in-law, Daron Grace. Neil and Debra were so proud of the community servant Mack became as a fireman and paramedic. Neil and Debra took in two other children from another mother that were sent to them by their Lord and by Steven Ray King. They adopted David King who became a caregiver and carpenter. They also adopted Michelle King. Debra was excited to be a mother again. Michelle is now a caregiver for the elderly and mother to Neil and Debra's grands, Madison R. King and Travis Bradley Cooper. Neil never hesitated one second in taking in

these new children and raising them as their own. The rare trait of showing them pure, unfiltered love led them to becoming a beautiful part of the family and to them, Neil was always their dad. They loved him just as he loved them. Neil became a Teamster lowboy heavy haul truck driver for the pipeline company, Murphy Brothers, in Illinois. He then worked as a Teamster steward, truck driver, lowboy hand and truck pusher. His next adventure was with T.G. Mercer in Weatherford, Texas, where he successfully helped build the company up so he could help employ many teamsters while being a mentor to the men. Neil continued to be a husband, provider, father, grandpa and friend all the while, our Lord was working on him all along the way. He made him a better man. Now, in death, our Lord is working on us. Neil leaves behind his grieving wife, Debra June Grace, of whom he was married to for 46 years; children, Mack Dillon Grace and wife, Daron of Chireno, David King of Nacogdoches and Michelle King and husband Jerry of Woden; grandchildren, Dillon Grace, Hannah Grace, Falon Grace, Madison King, Travis Bradley Cooper, Natalie King, Steven Ray King, III, Ashlynn King and Dayton King; sisters, Linda Young & husband, Red, Shannon Michaels & husband, Patrick and Carla Royce & husband, Johnny; sister-in-law, Linda G. Kyle; as well as many other family members, friends and co-workers and staff at T.G. Mercer Co, Teamsters at Local 657 in San Antonio, teamsters from Louisiana, Arkansas and Oklahoma Locals and others all across the USA. Neil loved working with all of you. He left nothing unsaid. He loved his men and his work.



Edward Joseph Michaels, 82, passed away peacefully at Hospice Home of Hope on January 4, 2020 after a courageous battle with brain cancer. He was born January 14, 1937, in Oakfield, the son of Alfred and Velma Burleton Michaels. On October 3, 1959 he married Mary Ellen Harlow at St Mary's Church in Fond du Lac. Ed served in the United States Army on active duty from January 24, 1957 through January 25, 1959. He continued to serve in the Army Reserves until his honorable discharge on December 31, 1962. Ed worked at Michels Pipeline for 33 years. Following retirement, he continued working part time at Michels, in the shop until 2014. One of Ed's greatest pleasures was spending time at the cabin up north, fishing, hunting, telling stories by the campfire, and drinking Old Fashions. He also enjoyed spending time building model airplanes for his great-grandsons. Survivors include his four children, Julie (Brian) Waas, Jim (special friend Diane) Michaels, Christine (Joel) Graf, Angela (Ryan) Pentland; nine grandchildren, Erika (Teddy) Dejno, Taylor Waas, Hannah, Morgan and Coleton Michaels, Kelly (Chad) McClanathan, Peter (Karen) Graf, Joshua and Jessica Pentland; four great-grandchildren, Quintin, Leightin and Adalyse Graf and Miles McClanathan; two sisters, Mary Etta (Roger) Shady and Jean (Robert) Hewitt; one brother-in-law, John Harlow; and many more loving family members. He was preceded in death by Mary, his wife of 54 years; his parents; two sisters and their husbands; three sisters-in-law and their husbands.

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