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PIPELINERS HALL of FAME NEWS

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Maine Drilling & Blasting Rock Steady at 55!

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EVENT CALENDAR

The 73rd PLCA Convention has been delayed. Watch for future updates.

73rd Annual PLCA Convention
The Grand Hyatt Baha Mar
Nassau, Bahamas
April 6 - 10, 2021

DCA 60th Annual Convention
Tuesday, July 27 - Saturday, July 31
Ritz-Carlton Orlando
Grande Lakes, FL

2022 APCA Annual Convention
Faairmont Scottsdale Princess
Scottsdale, AZ
March 25-30, 2022



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

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While readers of this publication receive the benefit of our comments, none of the information contained herein constitutes a recommendation from us. Although we do our very best to provide the most accurate information available, the contents of this publication should be used as a guide and not as official information.

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LATEST JOB REPORTS

InfraSource Construction, LLC, ph (800) 832-1517 has been awarded a contract by Washington Gas & Electric for the installation of approximately 3,000 feet of 16-inch pipeline via open cut and horizontal directional drilling in Arlington County, Virginia. Superintendent is Chad Colley. The approximate starting date is April 1, 2021.

Pe Ben USA, Inc., ph (281) 452-5915 has been awarded a contract by Precision Pipeline LLC for the loading, hauling and stringing of approximately 17 miles of 42-inch pipe in Raleigh County, West Virginia and Giles County, Virginia. Headquarters are in Pembroke, Virginia and Beckley, West Virginia. Superintendent is Adam Minigh. The approximate starting date is April 1, 2021.

Enterprise Products is evaluating bids for construction of approximately 13 miles of 20-inch pipeline near Carthage, Texas. Construction slated to begin in May 2021.

Dominion Energy has plans to construct approximately 15 miles of 16-inch pipeline. The project will run along Old River Road near Pamplico in Florence County, SC. Construction to begin in 2021.

Air Products is evaluating bids and is expected to award a contract soon for construction of approximately 11 miles of 16-inch pipeline from Baytown to Texas City, Texas.

Whitewater Midstream has awarded a contract to **MPG Pipeline Contractors, LLC**, ph (713) 955-9901 to construct approximately 28 miles of 20-inch pipeline near Bay City, TX. Work is expected to begin in April 2021.

Double E Pipeline, LLC has awarded **Pumpco, Inc.**, ph (979) 542-9054 a contract to install the 135 mile, 30-inch and 42-inch **Double E Pipeline** from the Summit Lane Gas Processing plant in Eddy County, New Mexico to the Waha Hub near Pecos, Texas. Work is getting underway.

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LATEST JOB REPORTS

Sunoco has plans for construction of approximately 6.5 miles of 12-inch pipeline near Brownsville, Texas. Bids for the project are due in April 2021.

Sunoco has plans for construction of approximately 15 miles of 16-inch pipeline near Baytown, Texas in 2021.

Apex Pipeline Services, Inc., ph (304) 204-0080 has been awarded a contract by TC Energy for the replacement of approximately 1,400 feet of 36-inch pipeline in Carter County, Kentucky; the replacement of approximately 1,200 feet of 36-inch pipeline in Menifee County, Kentucky; and replacement of approximately 900 feet of 30-inch pipeline in Madison County, Kentucky. Headquarters is in Grayson, Kentucky. Superintendent is Roman McKown. The approximate starting date is April 1, 2021.

Right-of-Way Clearing & Maintenance, Inc., ph (724) 423-6144 has been awarded a contract by Michels Corporation for the clearing on approximately

2.5 miles of 24-inch pipeline right-of-way in Boone County, Kentucky. Headquarters is in Florence, Kentucky. Superintendent is Mark Nedrow. The approximate starting date is April 1, 2021.

Epic Midstream has awarded a project to **Foss Energy Services**, ph (713) 904-4949 for the construction of approximately 17 miles of 12-inch pipeline from Odem, TX to Taft, TX. Work expected to begin in April 2021.

Midcoast Energy has awarded a contract to **Trendsetter Construction, Inc.**, ph (903) 759-4955 for the construction of 3 miles of 16-inch pipeline near Carthage, Texas. Work to begin in April 2021.

Ellingson Trenchless, LLC, ph (507) 527-2294 has been awarded a contract by Western Mountain Construction for the installation of an unknown length of 20-inch pipeline via horizontal directional drilling in Brooke County, West Virginia. Superintendent is Freddy Padilla. The approximate starting date is March 25, 2021.

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LATEST JOB REPORTS

J Hawk Energy has a job out for bid that includes construction of approximately 21 miles of 12-inch pipeline near Wichita Falls, Texas.

Phillips 66 is evaluating the bids for a project which includes construction of approximately 9 miles of 8-, 12-, and 18-inch pipeline near Sweeney, Texas. Work to begin in April or May 2021. We will update our website when we have the contractor information.

Northern Clearing Inc., ph (800) 573-6688 has been awarded a contract by Price Gregory International, Inc. for the clearing on approximately 18 miles of 10-inch pipeline right-of-way in St. Louis County, Missouri. Headquarters is to be determined. Superintendent is Rod Grubisic. The approximate starting date is April 1, 2021.

InfraSource Construction, LLC, ph (800) 832-1517 has been awarded a contract by NIPSCO for casing removal at 17 locations throughout Strake, St. Joseph, and Lake Counties, Indiana. Headquarters is

Columbia City, Indiana. Superintendent is Clark De Groot. The approximate starting date was March 17, 2021. Job should run through October 2021.

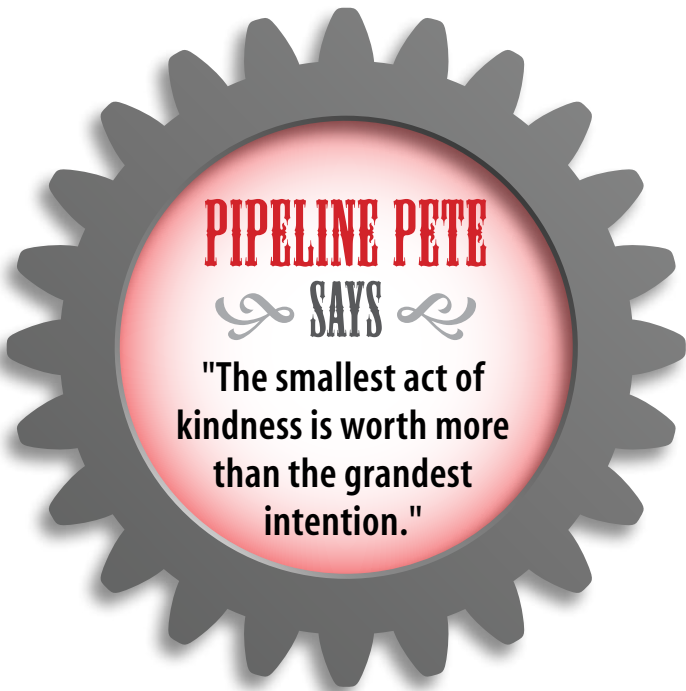
Castle, ph (601) 693-8777 has been awarded a contract by Florida Gas Transmission for the **Putnam Expansion Project**. The project will include the West Loop- install 13.7 miles of 30-inch-diameter pipeline loop in Columbia and Union Counties; Florida; the East Loop- install 7.0 miles of 30-inch-diameter pipeline loop in Clay and Putnam Counties; FL; the Columbia/Union Receiver Station Relocation- remove and relocate the existing 30-inch diameter 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; FL; the Columbia/Union Receiver Station Relocation- remove and relocate the existing 30-inch diameter 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; FL; the Clay/Putnam

LATEST JOB REPORTS

Receiver Station Relocation- remove and relocate the existing 30-inch diameter 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; and Compressor Station 18 - install new automated valves, over pressure protection device, and station piping at Florida Gas's existing Compressor Station 18 in Orange County, Florida. Work is expected to begin in August 2021.

Bids are being evaluated for a project for **Denbury Resources** 125 miles, 12-inch and 16-inch CO2 pipeline near Baker, Montana. Construction is slated to begin in June or July 2021.

We are updating our Contracts Let section on our website as soon as job information becomes available. Please check often on our site in the "Contract Lets" section for job updates at www.pipelinejobs.com





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When infrastructure is the topic, the conversation most often turns to the elements that keep a region running – public works, an orderly framework and underlying structure. But that’s only half of the story. What about the people and organizations that are the stewards of infrastructure? Those that keep resources moving, strengthen the flow, even move the earth. Literally.



One such organization is MD&B (Maine Drilling & Blasting) a valued contributor to the growth and improvement of infrastructure for 55 years. Based in Maine, the Company’s reach now stretches across New England, the Mid-Atlantic states, down the eastern seaboard and then turn right for business opportunities in Tennessee and southward. What started as a family business in 1966 is now one of the most respected drilling and blasting operations in the country. MD&B is rock steady with an employee team, the majority of whom are employee owners, that is 450 strong. Looking back on their history of success, the people of MD&B will mark their milestone 55th anniversary this year with the pride in knowing their expertise is in high demand for a multitude of above-ground and subterranean construction industry needs, and with the deep gratitude for what they have learned along the way.

The U.S. natural gas pipeline network, which moves natural gas throughout the continental United States, is a highly integrated network with about 3 million miles of mainline and other pipelines that link natural gas production areas and storage facilities with consumers. Transporting natural gas involves a complex system of gathering, processing, transmitting and delivering the gas.

With proven experience in pipeline construction support, MD&B entered 2021 as part of the Westbrook XPress Project (WXP) team on site in Westbrook, Maine. According to the Portland Natural Gas Transmission System (PNGTS), the market for natural gas in New England has been constrained for years by a lack of infrastructure to move the fuel to where it is needed. PNGTS proposed the project to increase New England’s natural gas supply.

The WXP to enhance PNGTS’ existing capacity is being achieved by the installation of facilities to compress and cool gas on the PNGTS system and modification of an existing meter station on land adjacent to the existing Westbrook Compressor Station. LMC Industrial Contractors of Dansville, New York, is contractor on the WXP project. MD&B is subcontractor for LMC.

Compressor stations are an integral part of the natural gas pipeline network that moves natural gas from individual producing well sites to end users. As natural gas moves through a pipeline, distance, friction and elevation differences slow the movement of the



gas, resulting in reduced pressure. Compressor stations are placed strategically within the gathering and transportation pipeline network to help maintain the pressure and flow of gas to market. Drilling and blasting rock and earth to clear the way for construction of the new Westbrook compressor station and pads, and allow connection of the existing compressor station to the new structure, was the role of MD&B on the WXP site.

A standard practice learned through experience, MD&B teams visit project sites months in advance of the start date to begin safety and blasting planning. “By getting out ahead of the project, we create synergy with the customer and are confident with our planning,” says Kyle Larrow, MD&B General Superintendent who paved the way for his team’s WXP role. “Advance planning helps us get familiar with the territory and terrain, putting us in a proactive rather than reactive position for the job.”



Challenges are inherent to drilling and blasting jobs, and the WXP was no exception. Because granite, which is extremely high in density, was the geology on the WXP site, it was determined during early meetings that four to five drill rigs would be needed. After time spent working the site, the crew discovered only two drills were necessary. The granite, “the kind of rock that lasts forever,” according to Blasting Superintendent Doug Brunelle, was successfully yielding to the one-two punch of MD&B’s drills and blasts. The crew was able to blast ample square footage per day with two drills, outperforming expectations.



Because the existing pipeline, and the sensitive cargo flowing through it, were within 50 feet of the blast site, other modifications had to be made. To minimize vibration, shot sizes were adjusted and reading limits were met or below the PPV (peak particle velocity) set for the project. “We pieced our steps, safety measures and sequence coordinates together like a jigsaw puzzle at the beginning of every day,” said Brunelle. “What we accomplished with the vibration levels on the WXP job taught us unique skills that we’ll use again in the future. The MD&B crew, from the Blasting Supervisor to the Laborers,

was great, each one of them giving the job all they had six days a week. We all left the job better and stronger.”

“Based on my years of experience working with Maine Drilling and Blasting on a wide range of construction projects that required precision blasting in order to excavate rock, LMC was very pleased to be able to award the drilling and blasting subcontract to MD&B,” said LMC Vice President/Projects Berkeley Gray. “In order for LMC to meet the project schedule, the drilling and blasting had to start in the dead of winter. MD&B was able to meet our schedule and budget with excellent results. This also allowed LMC to utilize a Maine-based work force on the WXP Project for this phase of the work as well as upcoming phases.”



Stewards of infrastructure and rock steady in their field, the future is long and bright for Maine Drilling & Blasting. Congratulations on your first 55 years!



Recognized as a leader in the industry and a long-term contributor to the local communities it serves, **MD&B** offers drilling and blasting services to both the construction and quarry markets, along with a variety of specialty services including foundation services, hoe ramming, engineering, public relations, pre-blast surveys, and packaged and bulk distribution. In addition to the corporate office in Gardiner, Maine, **MD&B** has offices in New Hampshire, Vermont, New York, Massachusetts, Connecticut, Pennsylvania and Tennessee.

PROPOSED PROJECTS & UPDATES

ANR Pipeline Company has filed a notice with the FERC under a blanket request authorization to abandon by removal twenty injection/withdrawal wells and related pipelines; and abandon seventeen storage line segments and appurtenant facilities in the Lincoln-Freeman Storage Field in Clare County, Michigan. ANR estimates the cost of the project to be \$3.3 million.

ANR Pipeline Company is underway with portions of the **Grand Chenier Xpress Project**. The proposed project includes facilities in Acadia, Jefferson Davies, 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. ANR anticipates beginning construction in January 2021 and commencing 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** – They are 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.

Columbia Gulf Transmission, LLC – FERC has issued a favorable Environmental Assessment for the **East Lateral Xpress** project. The project consists of the construction of two new compressor stations, a new meter station, approximately 8 miles of new 30-inch diameter natural gas pipeline lateral, two new mainline valves (MLVs), tie-in facility, launcher and

receiver facilities, and other auxiliary appurtenant facilities all located in St. Mary, Lafourche, Jefferson, and Plaquemines parishes, Louisiana. Upon completion, the project, as proposed, will create 183,000 dekatherms per day (Dth/d) of incremental capacity. Columbia Gulf’s proposed 30-inch pipeline lateral and POD Meter Station will interconnect with Venture Global Gator Express, LLC’s Gator Express Pipeline, supplying feed gas to Venture Global Plaquemines LNG, LLC’s (Venture Global LNG’s) liquefied natural gas facility1, all located in Plaquemines Parish, Louisiana. The pipeline facilities associated with the Project will involve the construction and operation of 8.14 miles of new 30-inch-diameter pipeline lateral within Barataria Bay. Pending receipt of all necessary authorizations and permits, Columbia Gulf anticipates mobilization and construction of the 30-inch pipeline lateral and associated aboveground facilities in Barataria Bay to begin by January 31, 2022. Mobilization, clearing, and construction of the Centerville and Golden Meadow compressor stations and associated facilities are also anticipated to begin by January 31, 2022. These constructions start dates are necessary in order to meet an in-service date of January 1, 2023 for the overall project.

Columbia Gulf Transmission, LLC is underway with the construction of compressor station facilities in East Carroll, Catahoula, Evangeline, and Rapides Parishes, Louisiana (**Louisiana Xpress Project**). The new Shelburn Compressor Station in East Carroll Parish, Louisiana, which includes installation of two 23,470 horsepower (hp) Solar Turbine Titan 130 natural gas-driven compressors, filter/separators, gas cooling bays, 48-inch-diameter suction and 42-inch-diameter discharge piping, and related appurtenant facilities; the new Red Mountain Compressor Station in Catahoula Parish, Louisiana, which includes installation of two 23,470 hp Solar Turbine Titan 130 natural gas-driven compressors, filter/separators, gas cooling bays, 48-inch suction and 42-inch discharge piping, and related appurtenant facilities; the new Chicot Compressor Station in Evangeline Parish, Louisiana, which includes installation of two 23,470 hp Solar Turbine Titan 130 natural gas driven compressors, filter/separators, gas cooling bays, Lisbon 48-inch suction and 42-inch-diameter discharge piping, and related appurtenant facilities; and cooling bays with associated piping and appurtenant facilities at the existing Alexandria Compressor Station in Rapides Parish, Louisiana.

Columbia Gas Transmission has filed a prior notice request with the FERC stating it plans to plug and abandon 12 existing natural gas storage wells, convert two existing natural gas storage wells to observation well status, and abandon associated tie-in valve settings and associated pipelines within the Lucas, Pavonia, and Weaver Storage Fields as part of the project. The Lucas Storage Field, where Lucas Wells 6225, 10619, 10731, and 10732 will be plugged and abandoned, is in Ashland County, Ohio approximately 4 miles

PROPOSED PROJECTS & UPDATES

northwest of Loudonville, Ohio. Within the Pavonia Storage Field, Pavonia Wells 3821, 4226, 6049, 8126, 10355, and 11056 will be plugged and abandoned and are in Ashland and Richland counties, Ohio approximately 6 miles east of Mansfield, Ohio. Within the Weaver Storage Field, Weaver Wells 1269 and 10729 will be plugged and abandoned and Weaver Wells 1142 and 10789 will be converted to observation well status, and are in Ashland and Richland Counties, Ohio, approximately 5 miles southwest of Loudonville, Ohio. Work is expected to begin oin May 2021.

The staff of the FERC has prepared a favorable Environmental Assessment (EA) to assess the environmental impacts of the proposed **Mainline 300 Replacement Project**. The project would involve the abandonment, replacement, and operation of the following facilities in Montgomery and Menifee Counties, Kentucky: replacement of approximately 760 feet of existing 36-inch pipeline, with approximately 760 feet of new, 36-inch natural gas transmission pipeline (replacement sections would be abandoned by removal and the new pipeline would be installed in the same trench); replacement of approximately 15 feet of existing 36-inch pipeline, with approximately 15 feet of new, 36-inch natural gas transmission pipeline at MP 6.9 (replacement sections would be abandoned by removal

and the new pipeline would be installed in the same trench); and abandonment in place of approximately 422 feet of 36-inch natural gas transmission pipeline. This is necessary to minimize potential impacts to an archaeological site near the project area (Site 15Mf490) that is considered eligible for listing on the National Register of Historic Places (NRHP). Columbia Gulf anticipates mobilization and construction no later than May 1, 2021 with an in-service date of August 1, 2021.

Double E Pipeline, LLC (Double E) has received approval for the **Double E Pipeline Project**. Double E plans 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. In-service is slated for 2021.





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PROPOSED PROJECTS & UPDATES

Driftwood LNG LLC and Driftwood Pipeline, LLC have received approval 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 is underway with construction of the **Somerset Extension Project**, which is part of the Del-Mar Energy Project. The project in Salisbury, Fruitland, and Eden areas of Wicomico and Somerset Counties, Maryland will consist of approximately 6.8 miles of 10-inch pipeline.

Enable Midstream Partners, LP has filed a formal application with the FERC for the **Gulf Run Pipeline** project. The new, 134-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. Pending receipt of applicable permits and regulatory approvals, construction would begin by 2022.

FERC will prepare an environmental document that will discuss the environmental impacts of the **Big Bend Project** involving construction and operation of facilities by **Florida Gas Transmission Company, LLC** (FGT) in Calhoun, Jefferson, Gadsden, Gilchrist, Santa Rosa, and Taylor Counties, Florida. FGT proposes to construct and operate the Big Bend Project to provide about 29 million standard cubic feet of natural gas per day to serve the need for additional firm transportation service in Hillsborough and Pinellas Counties, Florida for current and future electricity generation. The project facilities would consist of the West Loop: approximately 1.7 miles of 36-inch pipeline loop extension in Calhoun County, Florida; East Loop: approximately 1.5 miles of 36-inch pipeline loop extension in Jefferson County, Florida; relocation of associated pig

PROPOSED PROJECTS & UPDATES

receiver stations in Calhoun and Jefferson Counties, Florida; and upgrading existing natural gas-fired compressor turbines at four existing compressor stations - Compressor Station 12 – upgrade Unit 1207 from 15,000 horsepower (HP) to 16,000 HP in Santa Rosa County, Florida; · Compressor Station 14 upgrade Unit 1409 from 20,500 HP to 23,500 HP in Gadsden County, Florida; Compressor Station 15 – upgrade Unit 1507 from 15,000 HP to 16,000 HP in Taylor County, Florida; and Compressor Station 24 – upgrade Unit 2403 from 20,500 HP to 23,500 HP in Gilchrist County, Florida. Completion of the project is slated for 2023.

The staff of the FERC has issued a Certificate of Public Convenience and Necessity 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-** 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-diameter 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. The planned in-service is April 2022.

Gulfstream Natural Gas System, L.L.C. has received a Certificate of Public Convenience and Necessity to abandon, construct, and/or operate certain natural gas facilities for its **Phase VI Expansion Project** in Mobile County, Alabama, and Manatee County, Florida. Gulfstream proposes to: (1) replace approximately four miles of 36-inch-pipeline in Alabama with thicker-walled pipeline; (2) install additional compression facilities and uprate the maximum allowable operating pressure (MAOP) on part of its system; and (3) construct metering and auxiliary facilities and appurtenances. Specifically, Gulfstream proposes to conduct the following activities in Alabama and Florida: install one 16,000 horsepower (HP) gas-fired turbine driven compressor unit and related appurtenances at Gulfstream's existing Compressor Station 410 in Mobile County, Alabama; uprate the maximum



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PROPOSED PROJECTS & UPDATES

allowable operating pressure (MAOP) of the approximately 55-mile, 36-inch segment of pipeline from MP 3.9 in Mobile County, Alabama, to MP 59.0 in offshore federal waters in the Gulf of Mexico from 2,180 pounds per square inch gauge (psig) to 2,296 psig (beyond MP 59.0, the MAOP will remain at the current 2,180 psig); abandon in place approximately four miles of 36-inch onshore pipeline in Mobile County, Alabama, between MP 0.0 and MP 3.9, by cutting and capping each end and filling the line segment with grout; construct and operate approximately four miles of thicker-walled 36-inch pipeline onshore in Mobile County, Alabama, between MP 0.0 and MP 3.9, to accommodate an increase in the MAOP from 2,180 psig to 2,296 psig. This will offset and replace the approximately four-mile segment of pipeline to be abandoned as described in above; construct metering equipment at Gulfstream’s existing Compressor Station 420, located in Manatee County, Florida, to manage the gas flow associated with the higher MAOP described above; and construct other related auxiliary facilities and appurtenances. Construction is slated for the 4th quarter 2021.

Gulf South Pipeline Company, LP got underway in mid-January 2021 for a project which involves constructing approximately 3.4 miles of 20-inch natural gas pipeline lateral and appurtenant, auxiliary facilities: a new delivery meter station, and a new mainline compressor station with approximately 5,000 horsepower (the “Black Creek Compressor Station”) and other associated auxiliary appurtenant buildings and facilities, all located in Lamar and Forrest counties, Mississippi, (Lamar County Expansion Project). Gulf South also plans refunctionalization of its existing Hattiesburg 20-inch pipeline from storage to transmission in order to provide supplemental transportation service. The Lamar County Expansion Project will allow Gulf South to provide up to 200,000 dekatherm per day of new firm transportation service to Cooperative Energy primarily to serve Cooperative’s proposed new 550 megawatt combined cycle gas turbine generation facility (the Morrow Repower Project) to be located at Cooperative’s existing Morrow coal-fired power plant site (Plant Morrow) in Lamar County, near Purvis, Mississippi. Tentative completion date is slated for January 2022.

Jordan Cove Energy Project, L.P. and Pacific Connector Gas Pipeline, LP (PCPG) have received approval from the FERC for their proposed **LNG and Terminal Pipeline**. The project is designed to create a new LNG export point on the Oregon coast to serve overseas markets particularly around the Pacific Rim. The LNG Terminal would be capable of receiving natural gas, processing the gas, liquefying the gas into LNG, storing the LNG, and loading the LNG onto vessels at its marine dock. The planned liquefaction facility would be capable of producing up to 7.8 million metric tons per annum of LNG. PCGP is planning to construct and operate a new, approximately 233-mile long, 36-inch natural gas transmission pipeline crossing through Klamath, Jackson, Douglas, and

Coos Counties, Oregon. The pipeline would be designed to transport 1,200,000 dekatherms per day of natural gas to the LNG Terminal from interconnections with the existing Ruby Pipeline LLC and Gas Transmission Northwest LLC systems near Malin, Oregon. The project has a projected in-service date is projected for 2024.

Kern River has submitted an application with the FERC for the **Delta Lateral Project**. In order to meet the projected in-service date of May 1, 2024, Kern River plans to request certificate authority no later than February 2022. The proposed facilities, which are subject to change as the pre-filing process progresses, initially include: (1) an approximately 35-mile 24-inch-diameter lateral line; (2) a meter station located near Delta, Utah; and (3) appurtenant facilities, such as a main line block valve, taps and a launcher/receiver.

L A Storage, LLC has submitted a formal application with the FERC requesting authorization for the **Hackberry Storage Project**. The project would include new high-deliverability natural gas salt dome storage facility and associated compression and piping facilities in Cameron and Calcasieu Parishes, Louisiana. The project will involve the conversion of three existing salt dome caverns and development of one new salt dome cavern on a 159.5-acre parcel owned by LAS. The project will include two 42-inch natural gas pipelines with interconnections with Cameron Interstate Pipeline and the Port Arthur Louisiana Connector Pipeline. A 6.2-mile brine disposal pipeline will be constructed to connect the Project Facility with 4 proposed brine disposal wells. LAS will construct and operate on-site compression facilities and other ancillary facilities related to natural gas storage and transportation. The project will also involve development of six water supply wells on LAS’s property. The proposed project will be owned and operated by LAS with a total gas storage capacity of approximately 26 billion cubic feet.

Construction start for the Liberty Pipeline has been deferred. The **Liberty Pipeline** would be a new, approximately 700-mile-long, pipeline of up to 24 inches in diameter transporting light crude oil from Guernsey, Wyoming to Cushing, Oklahoma.

Magellan Midstream Partners, L.P. announced the extension of its open season to solicit customer commitments for the potential expansion of the partnership’s New Mexico refined petroleum products pipeline. Significant interest has been expressed from potential shippers, and the extension provides interested customers additional time to finalize commitments. Binding commitments were due on March 31. The nearly 250-mile pipeline segment currently transports various grades of gasoline and diesel fuel from Magellan’s terminal in El Paso, Texas to terminals in Albuquerque, New Mexico owned by Marathon and Vecenergy. Expansion of the pipe segment would provide the New Mexico market additional access to

PROPOSED PROJECTS & UPDATES

refined products from El Paso-area and Gulf Coast refineries via Magellan’s extensive pipeline system.

National Fuel Gas Supply Corporation and Transcontinental Gas Pipe Line Company, LLC has received approval from the FERC for the pipeline portion of the **Leidy South Project**. The proposed facilities include: replacement of 6.3 miles of Transco’s existing 24-inch Leidy Line A with 36-inch pipe in Clinton County, Pennsylvania (Hensel Replacement); 2.4 miles of 36-inch pipeline loop in Clinton County, Pennsylvania (Hilltop Loop); and 3.5 miles of 42-inch pipeline loop in Lycoming County, Pennsylvania (Benton Loop). Work is underway. Target in-service date for the project is winter 2021.

North Baja Pipeline, LLC (TC Energy) has received an Environmental Assessment from the FERC for its proposed **North Baja XPress Project**. A final FERC decision slated for December 7, 2020. 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.

The staff of the FERC has prepared an Environmental Assessment (EA) for the **Lake City 1st Branch Line Abandonment and Capacity Replacement Project** proposed by **Northern Natural Gas Company**. Northern is requesting authorization to abandon, construct, modify, and operate natural gas pipeline facilities in Webster and Calhoun Counties, Iowa. The proposed Lake City 1st Branch Line Abandonment and Capacity Replacement Project includes the following facilities/activities: abandon in-place 34.2 miles of the Lake City 1st branch line (4-inch pipeline) from milepost (MP) 0.00 to MP 34.15; disconnect the abandoned segment of the Lake City 1st branch line pipeline from Northern’s existing pipelines at five locations; uprate the maximum allowable operating pressure (MAOP) of 25.3 miles of the Lake City 2nd branch line (6-inch pipeline) and install a new take-off regulator setting to the Harcourt branch line pipeline; uprate the MAOP of the Callender branch line (2-inch pipeline); uprate the MAOP of the Manson 2nd branch line (4-inch pipeline) and install a new take-off regulator setting from the Manson 2nd branch line pipeline to the Manson 1st branch line pipeline and Rockwell City branch line pipeline; and construct 9.2

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miles of new 6-inch-diameter pipeline extension of the Lake City 2nd branch line, relocate a receiver to the Lake City Town Border Station (TBS), and install a new take-off valve setting for the Lohrville TBS.

Northern Natural Gas is proposing to abandon in-place Northern Natural's Auburn A-branch line located in Lancaster, Otoe, Johnson, and Nemaha counties, Nebraska; and to construct and operate branch line loop consisting of approximately 4.4 miles of 8-inch pipeline, a launcher, and regulator station and associated appurtenances in Lancaster and Otoe counties, Nebraska. **Northern Natural Gas** has issued a Notice of Intent to Prepare an Environmental Assessment from the FERC for its proposed **Northern Lights Expansion 2021** project. On January 13, 2021, FERC requested that Northern Natural submit a specific covid-19 prevention plan as the project will employ 300 – 350 construction workers. Northern has 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 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. Northern Natural has requested FERC approval for the project by March 2021. If approved by the FERC, construction is slated for Spring 2021.

Northern Natural Gas Company has received approval from the FERC to construct and operate the **Clifton to Palmyra A-line Abandonment Project**. The proposed Clifton to Palmyra A-Line Abandonment Project includes the following activities: disconnect the existing 24-inch-diameter M600A and the existing 20-inch-diameter M600J at Northern's existing Clifton Compressor Station; disconnect the existing 24-inch-diameter M590A and the existing 24-inch-diameter M600A at Northern's existing Beatrice Compressor Station; disconnect the existing 24-inch-diameter M590A at Northern's existing Palmyra Compressor Station; abandon in-place 54.3 miles of existing 24-inch-diameter M600A mainline in Gage and Jefferson Counties, Nebraska, and Washington and Clay Counties, Kansas; abandon in-place 19.9 miles of existing 20-inch-diameter M600J mainline in Clay and Washington Counties, Kansas; abandon in-place 41.7 miles of existing 24-inch-diameter M590A in Otoe, Lancaster, and Gage Counties, Nebraska, between Palmyra and Beatrice, Nebraska; and install a new 15,900-horsepower turbine driven compressor unit at Northern's existing Beatrice Compressor Station near Beatrice, Nebraska. Northern would abandon in-place: 54.3 miles of its existing 24-inch-diameter M600A mainline in Gage and Jefferson Counties, Nebraska

and Washington and Clay Counties, Kansas; 19.9 miles of its existing 20-inch-diameter M600J mainline in Clay and Washington Counties, Kansas; and 41.7 miles of its existing 24-inch-diameter M590A mainline in Otoe, Lancaster, and Gage Counties, Nebraska, between Palmyra and Beatrice, Nebraska. The project consists of isolation and abandonment of the A-Line and a segment of the J-Line. To abandon the pipeline in-place, Northern would disconnect and cap the A-Line at six interconnections where it is linked to other system facilities. The dig up and disconnects would take place in Clay County, Kansas, one location in Gage County, Nebraska, and one location in Otoe County, Nebraska. The abandonment of the A-Line would result in the abandonment of the J-Line, which is a loop of the A-Line.

Northern Natural Gas has received approval from the FERC for the **2021 Auburn A-line Abandonment and Capacity Replacement Project** involving construction, operation, and abandonment of facilities by Northern Natural Gas in Lancaster, Otoe, Johnson, and Nemaha counties, Nebraska. Northern proposes to construct and operate 4.4 miles of new 8-inch pipeline, abandon in-place 31.7 miles of 4- to 6-inch A-line, and install a launcher and a regulation station. The 2021 Auburn A-line Abandonment and Capacity Replacement Project is part of Northern's ongoing modernization efforts and review of vintage and mechanically jointed or acetylene welded pipeline segments. According to Northern, it would modernize Northern's existing system, improve reliability, and enable safer long-term operation of Northern's system.

Northern Natural Gas Company has received an Environmental Assessment from the FERC for a proposed project to construct and operate new facilities as part of its **Pipeline and Facilities Construction Project**. Northern intends to abandon in-place approximately 79.21 miles of its 14- and 16-inch South Sioux City to Sioux Falls M561 A-line (A-line) and appurtenances and to replace the abandoned pipeline with approximately 82.23 miles of 12-inch pipeline and appurtenances in Dakota and Dixon counties, Nebraska, and Lincoln and Union counties, South Dakota; install an approximately 3.15-mile, 12-inch tie-over pipeline and appurtenances in Lincoln County, South Dakota; abandon in-place the existing 0.16-mile, 2-inch Ponca branch line and replace it with an approximately 1.87-mile, 3-inch branch line and appurtenances in Dixon County, Nebraska; abandon in-place the existing 0.06-mile, 2-inch Jackson branch line and appurtenances in Dakota County, Nebraska; modify existing and install new above-grade facilities in various counties in Nebraska and South Dakota; and abandon and remove short segments of pipeline in various counties in Nebraska and South Dakota.

The staff of the FERC has issued approval for **Northern Natural Gas Company's Palmyra to South Sioux City A-Line Abandonment Project**. The proposed project is in

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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 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 has received approval from the FERC to abandon in-place a segment of its 14- and 16-inch-diameter M561 A-line (A-line) from Dakota County, Nebraska, to Lincoln County, South Dakota, and the associated Jackson and Ponca Branch Lines in Dakota and Dixon Counties, Nebraska. Northern also requests authorization to construct and operate approximately 87.3 miles of various diameter

pipelines and modify existing and install new above-ground facilities in Nebraska and South Dakota to replace the capacity associated with the abandoned facilities (**South Sioux City to Sioux Falls A-line Replacement Project**).

PennEast Pipeline has received an Environmental Assessment from the FERC seeking authority for the **PennEast 2020 Amendment Project** involving the construction of approximately 120 miles of 36-inch pipeline to be built in Northampton County, Pennsylvania. PennEast proposes to amend their FERC Certificate Order that was issued on January 19, 2018. PennEast plans to construct the federally approved PennEast Pipeline Project in two separate phases. Phase One would consist of 68 miles of 36-inch pipe, constructed entirely within Pennsylvania and ready to deliver natural gas by November 2021. The Phase Two portion would include the remaining route in Pennsylvania and New Jersey, with a targeted completion of 2023. Additionally, PennEast filed a previous amendment application on February 1, 2019, proposing four modifications to the certificated route in Luzerne, Carbon, Monroe, and Northampton Counties, Pennsylvania. The 2020 Amendment would consist of the following: a new interconnection facilities (Church Road Interconnects) in Bethlehem Township, Northampton

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County, Pennsylvania; a metering and regulation station at approximate milepost (MP) 68.2 of the certificated route; and two separate interconnection and measurement facilities.

Port Arthur Pipeline, LLC, a subsidiary of Semptra LNG & Midstream, has received a positive Final Environmental Impact Statement (EIS) from the FERC and a notice that it can begin site preparation for its proposed **Texas Connector** natural gas pipeline in connection with the proposed development of the **Port Arthur Liquefaction Project** by Port Arthur LNG, LLC, and **PALNG Common Facilities** in Jefferson County, Texas. The Final EIS addresses the potential environmental effects of the construction and operation of the following proposed facilities: two liquefaction trains, each with a capacity of 6.73 million tons per annum of LNG for export; three LNG storage tanks, each with a capacity of 160,000 cubic meters; a refrigerant storage area and truck unloading facilities; a condensate storage area and truck loading facilities; a new marine slip with two LNG vessel berths, an LNG vessel and support vessel maneuvering area, and an LNG transfer system; a materials off-loading facility and Pioneer Dock; approximately 38.9 miles of 42-inch-diameter pipeline to bring feed gas from interconnections with Kinder Morgan Louisiana Pipeline LLC, Natural Gas Pipeline

Company of America, Houston Pipeline Company LP, Texas Eastern Transmission, LP (TETCO), Florida Gas Transmission Company, LLC, and Golden Triangle Storage, Inc./Centana Intrastate Pipeline, LLC to the terminal site; approximately 131.3 miles of 42-inch-diameter pipeline to bring feed gas from interconnections with Centana Interstate Pipeline, LP, TETCO, Tennessee Gas Pipeline Company, Market Hub Partners – Egan, Pine Prairie Energy Center, Texas Gas Transmission, LLC, ANR Pipeline Company, and Columbia Gulf Transmission, LLC to the terminal site; three compressor stations; meter stations at the pipeline interconnects; and other associated utilities, systems, and facilities (mainline valves, pig launchers/receivers, contractor yards, access roads, etc.). Construction is expected to begin in the third quarter of 2021, with commercial operations expected to begin in third quarter of 2022. On May 8, 2020, **Port Arthur Pipeline** filed received an Environmental Assessment for the **Louisiana Connector Project**. Port Arthur Pipeline plans to construct, own, and operate additional new proposed Liquefaction Facility south of Port Arthur in Jefferson County, Texas. The Louisiana Connector Project will be capable of delivering approximately 2,000,000 MMBtu per day of natural gas to the Liquefaction Project. The Louisiana Connector Project, along with the Texas Connector Project facilities proposed in

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this proceeding, will be the primary means of delivery of feed gas to the Liquefaction Project. The anticipated construction start date is 1st quarter of 2021 with in-service slated for 3rd quarter 2022. The Louisiana Connector Project will include 131 miles of 42-inch diameter gas pipeline, a new compressor station, interconnection facilities with interstate and intrastate natural gas facilities, and other appurtenant facilities. The proposed Louisiana Connector Project facilities will extend from an interconnect with Columbia Gas Transmission (MP 130.9) located northeast of Eunice, Louisiana in St. Landry Parish through Evangeline, Allen, Beauregard, Calcasieu, and Cameron Parishes in Louisiana and Jefferson County, Texas and terminate at the proposed Liquefaction Facility south of Port Arthur in Jefferson County, Texas. The Louisiana Connector Project, along with the Texas Connector Project facilities proposed in this proceeding, will be the primary means of delivery of feed gas to the Liquefaction Project. Both projects are needed to provide service to the Liquefaction Project and will allow flexible access to multiple supply basins and systems of upstream transporters. Combined, the projects will give more gas sellers access to Port Arthur LNG and Port Arthur LNG access to more supply basins. The proposed **Port Arthur Pipeline Project** would consist of two segments oriented north and south of the proposed

liquefaction project. The 27.6-mile northern portion of the proposed pipeline project would extend from Vidor in Orange County, TX to the proposed liquefaction project, with the majority of the proposed pipeline co-located with existing energy infrastructure rights-of-way. The approximately 7-mile southern portion of the proposed pipeline project would originate in Cameron Parish, Louisiana on the east bank of Sabine Lake and terminate at the Port Arthur Liquefaction Project. The proposed pipeline project would interconnect the Port Arthur Liquefaction Project to various intra- and interstate pipelines, providing access to a number of major U.S. natural gas supply basins. Construction is expected to begin in the third quarter of 2021, with commercial operations expected to begin in third quarter of 2022.

Port Arthur LNG Phase II, LLC (PALNG-II) and PALNG has an application before the FERC seeking authorization to construct and operate new natural gas liquefaction facilities. The proposed project is known as the **Expansion Project** and would add a total of approximately 13.5 million tonnes per annum (MTPA) of liquefaction capacity for export overseas at the Port Arthur LNG Liquefaction Terminal. The Expansion Project would be located on approximately 900 acres near the City of Port Arthur in Jefferson County, Texas,

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entirely within the previously authorized Port Arthur LNG Liquefaction Terminal site. The Project would include two new liquefaction trains (Trains 3 and 4), each with its own gas treatment facilities and capable of producing 6.73 MTPA; and associated utilities and infrastructure related to Trains 3 and 4. Issuance of a favorable Environmental Assessment from the FERC was issued, and a final decision is slated for April 2021.

Portland Natural Gas Transmission System (PNGTS) is underway with construction of the **Westbrook XPress Project (WXP)**. Adding to PNGTS' existing capacity, WXP will be capable of transporting approximately 124,000 dekatherms a day (Dth/d) to areas where it is in great demand. Enhancing PNGTS' existing capacity through WXP will be achieved via the installation of facilities to compress and cool gas on the PNGTS system, and the modification of an existing meter station, on land adjacent to the existing Westbrook Compressor Station. The facilities at Westbrook are jointly owned by PNGTS and Maritimes & Northeast Pipeline (MNE), and operated by M&N Operating Company, LLC (MNOC). The proposed project is anticipated to be completed in three phases, with the last expected to go into service by November 1, 2022. All work will be conducted on or adjacent to the existing station. Construction will only be associated with Phase II, which is slated to be placed into service in 2021.

RH Energytrans, LLC has requested and received approval to delay its in-service date for the **Risberg Line Project** until December 2022. The project consists of the conversion of 31.6 miles of existing 8-inch and 12-inch natural gas gathering pipeline to transmission service, construction of 28.3 miles of new 12-inch pipeline, conversion of the existing Countyline Compressor station from gathering to transmission service, and construction of a new compressor station at Meadville, PA.

Spire Storage West, LLC (Spire Storage) has received notice from the FERC that it will prepare an environmental document for the construction and operation of facilities in Uinta, Wyoming. The **Clear Creek Expansion Project** would consist of the following facilities: four compressor units at the Clear Creek Plant; a tank storage and natural gas liquids fueling equipment facility on an existing pad; 11 new injection/withdrawal wells, one new water disposal well, and associated lines; approximately 10.6 miles of 20-inch-diameter pipeline; approximately 3.5 miles of 4,160-volt powerline; and other related appurtenances.

Tennessee Gas Pipeline Company, L.L.C. (TGP), a Kinder Morgan subsidiary, and **Southern Natural Gas Company, L.L.C. (SNG)**, a Delaware limited liability company equally owned by subsidiaries of Kinder Morgan and Southern Company, has received notice from the FERC of a positive Environmental Assessment for the **Evangeline Pass Expansion Project**. The Evangeline Pass Expansion Project is designed to provide up to 1.1 million dekatherms per day

(Dth/d) of additional natural gas capacity on Kinder Morgan's TGP and SNG systems in Louisiana and Mississippi. As part of the project, SNG will lease capacity to TGP. The project involves building 9.1 miles of 36-inch diameter pipeline in St. Bernard Parish, Louisiana as well as 4 miles of 36-inch pipeline in Plaquemines Parish, Louisiana. It will also include two new compressor stations located in Clarke County, Mississippi, and St. Bernard Parish, Louisiana, and modifications to existing facilities on both the TGP and SNG systems. Pending receipt of all required permits, the expected in-service date is December 2022.

Texas Eastern Transmission, LP has approval from the FERC for the **Appalachia to Market Project**. A final FERC decision is expected in December 2020. The Appalachia to Market Project would consist of the following facilities and actions, all in Pennsylvania: construction of approximately 0.8 mile of 30-inch-diameter pipeline loop in the same trench as a segment of an abandoned 30-inch-diameter pipe (that would be removed for this project) on the Texas Eastern system in Westmoreland County, PA; one crossover at the existing Bechtelsville pig launcher site in Berks County, PA; one crossover at the existing Uniontown pig-receiver site in Fayette County, PA and other related appurtenances. Construction is slated for the 2nd quarter of 2021.

Texas Eastern Transmission, LP are getting underway with site preparations and tree clearing for the **Middlesex Extension Project**. **Texas Eastern plans** 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.

Texas Eastern has received FERC approval for the **Marshall County Mine Panel 19E and 20E Project** located in Marshall County, West Virginia. FERC has also granted authority to utilize a new contractor yard in Moundsville, Marshall County, West Virginia. 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.

PROPOSED PROJECTS & UPDATES

As such, Texas Eastern needed 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 were 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 Transmission, L.P. has begun pre-construction activities on its **Cameron Extension Project**. The project will provide 750 million cubic feet per day of firm transportation service. Texas Eastern plans 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 miles 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.

Tennessee Gas Pipeline Company, L.L.C. has received a favorable Environmental Assessment from the FERC to install one 11,107 horsepower gas-turbine driven compressor unit at its existing Compressor Station 321 in Susquehanna County, Pennsylvania; (2) install one 20,500 HP gas-turbine driven compressor unit at its existing Compressor Station 325 in Sussex County, New Jersey; and (3) construct the new 19,000 HP electric-driven Compressor Station 327 in Passaic County, New Jersey (East 300 Upgrade Project). The **East 300 Upgrade Project** would create 115,000 dekatherms per day of firm transportation service. Tennessee estimates the cost of the project to be approximately \$246.3 million.



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PROPOSED PROJECTS & UPDATES

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.

Canceled – Tellurian’s Permian Global Access Pipeline (PGAP) is proposing to construct, own and operate the **PGAP Project**, an approximate 625-mile long, 42-inch diameter interstate natural gas pipeline originating at the Waha Hub, the gateway for Permian gas heading to market, and terminating near Lake Charles, Louisiana, the heart of US gas market growth. The project is part of Tellurian’s proposed Tellurian Pipeline Network that represents a \$7.0 billion investment in U.S. infrastructure, and the creation of approximately 15,000 jobs in Texas and Louisiana. The investment is incremental to the \$15.2 billion investment that Tellurian plans for Driftwood LNG, a proposed liquefied natural gas (LNG) export facility near Lake Charles, Louisiana. The pipeline has a tentative in-service date of 2023.

Transcontinental Gas Pipe Line Company, LLC has received a Notice of Intent to Prepare an Environmental Assessment **Regional Energy Access Expansion Project** involving construction and operation of facilities by Transcontinental Gas Pipe Line Company, LLC (Transco) in Bucks, Chester, Delaware, Luzerne, Monroe, Northampton, Wyoming, and York Counties, Pennsylvania; and Burlington, Camden, Gloucester, Hunterdon, Mercer, Somerset, and Warren Counties, New Jersey; and Baltimore County, Maryland. Transco plans to construct and operate approximately 35.8 miles of pipeline loop and one new compressor station, as well as modify existing compressor stations and facilities in Pennsylvania and New Jersey. The project would provide about 760 million standard cubic feet of natural gas per day to multiple delivery points along Transco’s existing system in Pennsylvania, New Jersey, and Maryland. According to Transco, its project would provide its customers with enhanced access to Marcellus and Utica Shale natural gas supplies. The project would consist of the following facilities: installation of 22 miles of 30-inch-diameter pipeline loop in Luzerne County, Pennsylvania (Regional Energy Lateral); installation of 13.8 miles of 42-inch-diameter pipeline loop in Monroe County, Pennsylvania (Effort Loop); installation of the new Compressor Station 201 (up to 11,500 horsepower in Gloucester County, New Jersey); installation of a gas turbine or electric motor-driven compressor unit (up to 16,000 hp) at existing Compressor Station 505 in Somerset County, New Jersey; installation of a gas turbine compressor unit (up to an additional 31,871 hp) and modifications to three existing compressors at existing Compressor Station 515 in Luzerne County, Pennsylvania; modifications at existing compressor

stations, meter stations, interconnects, and ancillary facilities in Pennsylvania, New Jersey, and Maryland; and installation of ancillary facilities such as mainline valves, communication facilities, and pig launchers and receivers.

Transcontinental Gas Pipe Line Company, LLC is getting underway with the **Leidy South Project**. 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 plans to construct 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. In-service is slated in time for the 2021-22 winter heating season.

Tuscarora Gas Transmission Company has received a favorable Environmental Impact Statement from the for the **Tuscarora Xpress Project**. Tuscarora is seeking authorization to increase its certificated capacity on the pipeline by 15,000 dekatherms per day of firm capacity from Malin, Oregon to the Wadsworth Compressor Station (CS) in Washoe County, Nevada, effectuated through modifications to the original design assumption within Tuscarora’s engineering models, and replace a 600 horsepower (HP) reciprocating compressor unit with a new 1,380 HP reciprocating compressor unit along with related piping and appurtenant facilities at its existing Wadsworth CS. Construction start is anticipated for June 2021.

Venture Global Plaquemines LNG, LLC (Plaquemines LNG) and Venture Global Gator Express, LLC (Gator Express Pipeline) is proceeding to construct the process facilities for the **Plaquemines LNG and Project**. Plaquemines LNG and Gator Express Pipeline are proposing to construct and operate a new LNG export terminal and associated facilities along the west bank of the Mississippi River in Plaquemines Parish, Louisiana (Terminal) and to construct and operate two new 42-inch diameter natural gas pipeline laterals that will connect the Terminal to the pipeline facilities of Tennessee Gas Pipeline Company and Texas Eastern Transmission. The two parallel and adjacent laterals (11.7 and 15.1 miles long) would be operated at an MAOP of 1,200 pounds per square inch and will be designed to provide firm transportation capacity of approximately 1,970,000 Dt/d to the Terminal. Total cost of the pipeline portion of the project is estimated to be approximately 284 million dollars.

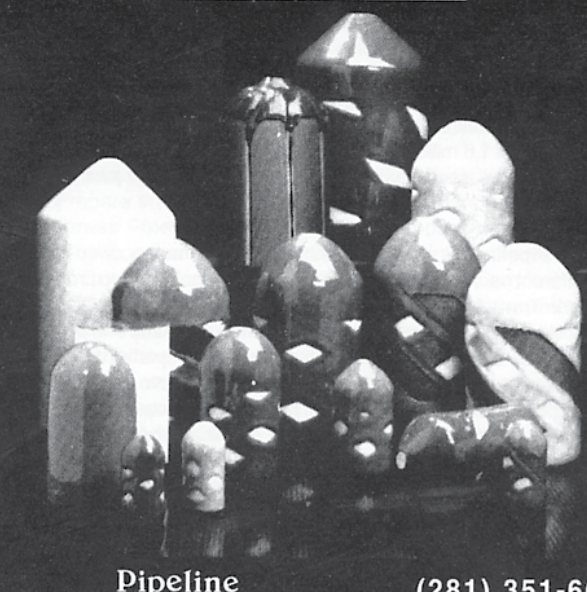
PROPOSED PROJECTS & UPDATES

WBI Energy has received a positive Environmental Assessment from the FERC to construct, modify, operate, and maintain a new natural gas pipeline and associated facilities in McKenzie, Williams, Mountrail, and Burke Counties, North Dakota to transport up to 250,000 million cubic feet per day of natural gas from the Williston Basin in northwest North Dakota to a new interconnect with Northern Border Pipeline Company’s existing mainline. The proposed facilities are collectively known as the **North Bakken Expansion Project**. The proposed North Bakken Expansion Project involves approximately 60 miles of new 20-inch diameter natural gas pipeline that will connect WBI Energy’s Tioga Compressor Station near Tioga, North Dakota, with Northern Border Pipeline Company’s mainline at a new interconnection point south of Watford City, North Dakota. WBI Energy also will construct a new compressor station, the Elkhorn Compressor Station, near the new interconnection point. The project also includes constructing approximately 20 miles of new 12-inch diameter natural gas pipeline between the company’s Tioga Compressor Station and an existing receipt station, adding compression horsepower at the Tioga Compressor Station and installing associated pipeline and measurement facilities. The cost of the North Bakken Expansion Project is estimated to be approximately \$220 million. Upon receipt of

regulatory approval, construction on the project is expected to begin in April 2021, with a proposed in-service date of November 2021.

Williams has received approval from the FERC for the **Northeast Supply Enhancement** project. They also filed in March 2021 with the FERC requesting an extension of time to complete the project. The project is an expansion of the existing Transco natural gas pipeline designed to serve New York markets in time for the 2020/2021 winter heating season. 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.

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PROPOSED PROJECTS & UPDATES

Williams is continuing to conduct environmental surveys for its proposed **Regional Energy Access Project**. The project will include approximately 22.2 miles of 30-inch pipeline in Luzerne County, PA; 13.8 miles of 42-inch looping in Monroe County, PA (Effort Loop); greenfield gas-fired turbine driven or electric motor driven compressor at Compressor Station 201 with approximately 11,500 horsepower (HP) in Gloucester County, NJ; addition of gas-fired turbine driven or electric motor-driven compressor at existing Compressor Station 505 with approximately 16,000 HP in Somerset County, NJ; addition of one gas-fired turbine driven compressor with approximately 31,871 HP and modification of three existing compressors at existing Compressor Station 515 in Luzerne County, PA to support the project; abandonment and replacement of approximately 17,000 HP from five existing gas-fired reciprocating driven compressors with one gas-fired turbine driven compressor with approximately 20,502 HP at existing Compressor Station 515 in Luzerne County, PA; modifications at existing Compressor Station 195 in York County, PA; modifications at existing Compressor Station 200 in Chester County, PA; Modifications to three existing receipt meter stations in PA (Carverton Interconnect & Tie In, Chapin Facility Meter & Regulating [M&R] Station, Williams Field Services Puddle-

field M&R Station); modifications to two existing pipeline interconnects in PA (Hildebrandt Interconnect & M&R, Lower Demunds Interconnect); addition of regulation at an existing valve setting on Transco's Mainline "A" in Bucks County, PA (Mainline A Regulator); modifications at the Delaware River Regulator Facility in Northampton, PA; modifications to three delivery meter stations in NJ (Camden M&R Station, Lawnside Meter Station and Mt. Laurel Meter Station); modifications to delivery meter station in PA (Chester M&R Station); modifications to one existing meter station in MD (Beaver Dam M&R Station); increased flow (no modifications) to six delivery meter stations (Centerville, Low Mud Run, Post Road, New Village, Spruce Run and Repaupo M & R Stations); additional ancillary facilities, such as mainline valves (MLVs), cathodic protection, communication facilities, and internal inspection device (e.g., pig) launchers and receivers in PA; and existing, improved, and new access roads and contractor yards/staging areas in PA, NJ, and MD. Subject to FERC's certification of the project and receipt of the necessary permits and authorizations, Transco anticipates construction of the project would commence in fourth quarter 2022 to meet a proposed in-service date of December 1, 2023

HEARD ON THE LINE



One pipeline story of many
Joey Hawkins and I went on a job finding mission down to Houston in 1977. We had been sleeping on the beach down in Freeport or in my pickup for a few days until we got a pipeline job out of Local Union 211 in Houston. I was sent to tie-ins and Joey, the pipe gang where he met a helper that was going through a divorce and had a 3 bedroom apartment. The wife had taken all the furniture so we had to sleep on the carpet. We met up after work and went to happy hour in a dark bar in a shopping plaza for a few beers. While we were on our first beer, the door opened and a US Air Force Recruiter walked in who had a shaved head, a little goatee and aviator glasses on. I told Joey that I'd shave my head. He thought he would call my bluff, so I asked him how much he'd like to bet. He opened his wallet and he had \$40 and I told him I'd do it for \$20. We drank a few beers, got to the helpers apartment and the hacking began. After 1 pair of scissors and 1/2 dozen razor blades, the job was done. I had this bald, white head and \$20. I knew I had to get a tan on that gourd, so I didn't wear my cap that next day and got a 2nd degree burn on my head. After much pain and peeling, the job was finally over and we limped back home with a few hundred to our names. I got to Mom and Dad's about 9:30 that night and the sliding glass door was locked and the curtains were drawn. They were watching TV and getting ready to go to bed. I banged on the door and Daddy turned on the porch light and pulled the curtain back to see who it was banging on the door that time of night. He didn't recognize me because when I left I had hair down to the middle of my back and now I didn't have any! He opened the door and let me in and said "Darn boy, if you don't go from one extreme to the other", with a disgusted look on his face. Momma had been in the bathroom when I knocked on the door, but came out to see what the commotion was about. Daddy looked at her and said, "Look what YOUR son has gone and done!!" To her credit, Momma said, "He's YOUR son too!!" Daddy was so disgusted he went to bed saying, "Maybe I'll wake up tomorrow and this will just have been a nightmare!" Anyway, I kept it shaved for about six months but since shaved heads were not in style yet, I was labeled a freak by every young lady I met. I walked into a bar in Iowa six months later and put my quarters on the pool table to play the next round. Ladies were having a night out and as I approached the table with my quarters they moved around the table with fear in their eyes, grabbed their purses and got out of there before I could even order a beer. And that wasn't the first time something similar happened. I didn't shave my head the next morning or ever again. — Jimmy Strange, Jr.

Do you have a good pipeline story to tell? Send us your story and/or photos to: tboatic@pipelinejobs.com

Sending out a big congratulations to **Samantha Weems**, granddaughter of **Sonny Weems**. Samantha made the Winter 2021 President's & Dean's Honor Roll List at Louisiana Tech University. This distinction signifies achievement of a least a 3.8 academic grade point average of nine semester hours completed (100-level or higher), with no grade lower than a B.



Jimmy and Patrice Wagstaff celebrated their 21st anniversary on March 25th



Jimmy Wagstaff enjoying time with the grandchildren.



Johnny Tyler and his beautiful wife celebrating their anniversary



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HEARD ON THE LINE

Have you met “Tim – The Toy Man”?

Look at his work!

Tim’s love for woodworking began with watching his dad and his grandfather, both woodworkers, make many things that interested him. So, he decided to try to make some himself.

In 1984, he entered these in St. Louis at a show and won First Place! Tim says, “I was hooked from there.”

Tim makes many different items and sells them. You can find him on Facebook under Tim Suhling. You can contact him in Messenger if you are interested in purchasing any of his woodwork.



PIPELINE PHOTOS





William G. "Bucky" Price, 89, passed away on August 11, 2020 at the Gatehouse in Williamsport, PA. Born on December 6, 1930 in Tarreytown, NY. He was the son of the late Alton and Edna Price. He was married to Livia L. (Serra) Price on April 10, 1958, who survives in Renovo, PA. Bucky, was preceded in death by daughter Laura M. (Price) married to Patrick J. Smith. He was preceded in death by his brother William H. Warren Jr. married to Linda Warren. "Bucky" is survived by his wife and children Tanya (Price) Tom Bruno, Cross Fork, Pa, Sharon (Price) Dave Porlier, Massachusetts, Judy (Price) Ed Wadleigh, Massachusetts. He is also survived by his sister-in-law, Gloria A. Sweitzer. He has many grandchildren and great grandchildren and he loved them all. His grandchildren Timothy Emerick, Olivia Bruno, Patrick Smith, Christian Spencer, Collin Spencer and Aleigha Goetz, could always count on their "biggest fan" supporting them in the stands of every sporting event. He was well known for his own skills on the basketball court himself. He loved every sport out there, which some probably remember him being at the games cheering them on, Bucktail's #1 fan. He was blessed later in life with many half sisters and half brothers. He loved them all. "Bucky" was a graduate of Renovo High School in 1949. He served in the U.S Navy in 1950's. He was a Journeyman/Pipefitter for Local Union 798, Tulsa Oklahoma. He loved his trade and worked many years throughout the U.S., including the Alaskan Pipeline. He retired in 1992. He was a member of the St. Joseph's church in Renovo, PA. He loved hunting, fishing, his work and his later years, watching TV. He loved his family and friends. He will be deeply missed by so many.



Anthony (Tony) Edwin Ashby passed away February 4, 2021. Tony was born August 23, 1965 in Clare Michigan to Albert (Abe) and Nora Ashby. He was preceded in death by his son, Austin Ashby, his brother Rick Ashby, sister in-law Dawn Taul, brother in-law Chad Taul, and mother in-law Carolyn Taul. Tony is survived by his loving wife Deana (Taul) Ashby, sons Aric Ashby, Amos Ashby and Dekota Ashby, his grandson Luke Ashby, Parents Abe and Nora Ashby, sister Vivian Doran, brothers Dennis (Claudia) Ashby, Timothy (Laurie) Ashby, Pete (Donna) Ashby, And Jim (Gidget) Ashby, and brother-in-law Tony Taul. Growing up as the youngest of 7 children Tony was good natured and always cheerful. He played football throughout Jr. High and High school and did it well, often being described as tough to go up against. As a teenager Tony met, Deana, the love of his life. He and Deana started dating when they were in high school and began their adventures as a team. They were married on March 14, 1987 at Community of Christ Church in Marion, Michigan. Together they raised 4 boys to be fine men. Tony was a natural provider and protector and nothing was more

important to him than his family. He built two beautiful homes from the ground up. In December of 2019, when Tony and Deana's son Amos blessed them with their first grandson, Luke, Tony was mesmerized and gained a whole new level of love. Tony was gifted in countless areas. He followed in his family's footsteps and became a proud member of Local Union 798 on April 21, 1986, first working as a welder's helper, then a journeyman pipefitter and soon became what many people describe as a "Legendary Pipeman". Books could be written from the stories that abound. In the mornings it was, "Let's lay pipe!" At quitting time it was, "One more! Let's get one more!" Never was there an impossible job, just a problem to be solved. Tony was known and loved by many on every pipeline job across the country. He loved his job, his pipeline brothers and sisters, and he did his job proudly, but never boasted. The amount of humility and dedication Tony demonstrated on the job earned him a deep respect and honor. After a long day's work, if he wasn't cracking jokes and making light of a situation around a campfire, or playing horseshoes, cards were always on the agenda. He was ever ready to help anyone without an ounce of judgment. Tony was the rock for the entire family. He showered his parents, brothers, sisters, nieces, nephews, aunts, uncles, cousins and friends with an inexpressible love. He was a true example of selflessness, humility and integrity. He will be sorely missed by so many near and far.



Jimmie Dale Pugh, age 76, passed to his heavenly home on Sunday, February 21, 2021. Jimmie was born on February 16, 1945 in Idabel, OK, the son of William and Audrey Cleo Pugh. He and Patti Dawson were united in marriage on February 16, 1973, in Clarksville, TX. He was preceded in death by his parents; his sister, Sue Hill; brothers, Jerrel Pugh, Wayne Pugh and Larry Don Pugh; and nephews Cary Pugh and Larry Pugh. Jimmie leaves to cherish his memory, Patti his wife of 48 years; daughter, Kelle Hill and husband, Steve of Dallas, TX; son, Chance Pugh and wife, Stacy and granddaughter, Kayla Bacon all of Idabel, OK; sisters, Neta Pugh of Tyler, TX, Linda Kay Prim of Sulphur Springs, TX and Vicki Luman of Idabel, OK; nieces, Karla Hardin and Pam Bryant; nephews, Rusty Prim and Jerry Pugh; numerous other relatives, friends and his pipeline family.

Carrol Eugene McCord, 78, died on January 13, 2021. Mr. McCord was the father of Doug McCord, President of Big Inch Fabricators and Construction, Inc. Mr. McCord attended college at Eastern Illinois University and was one semester shy of a degree when he went to work on the pipeline. The summer job turned into a career with Local 157 Plumber & Steamfitters and he spent the rest of his working life with Hoke Construction, J L Allen Co, Murphy Bros, and Big Inch Fabricators as a welder, superintendent,

and estimator. In addition to Doug (and his wife Tracey), he is survived by his children, C. Duane McCord (Kelly) and Darra Walker (Chuck); several grandchildren, and one great grandchild. For those who wish, the family suggests that memorials be made to the Edgar County Shrine Club or to St. Jude Children's Research Hospital.



Mark Beard, 72, of long time PLCA Associate Member, died January 31, 2021, in Mt. Pleasant, Michigan. From a young age Mark worked alongside his father Leo at Hub Oil and Beard Oil and Supply. In 1984 he established M & L Petroleum Inc. where he was awarded the fastest growing business in the state of Michigan. In 2005 Mark established Beard Oil Distributing among other companies including his most recent venture, Beard Motorsports. In 2016 he established his own NASCAR Cup Team, running the #75, then the #62. He is survived by his wife of 43 years, Linda; two children Amie Beard (Jeremy Deja) of Mt. Pleasant and Mark R. (Alexandra) Beard of St. Johns, Michigan; sisters, Leonna (Rick) Mousa of Atlanta, Georgia, and Kathy (Jerry) Evans of Mt. Pleasant; and several nieces and nephews. To sign the online guest book or leave a condolence for the family please visit www.CharlesRLux.com. Beard Oil has been a valued supporter of the PLCA Scholarship Foundation and the PLCA Safety & Quality Conference and is famous for its chocolate trucks at the PLCA Annual Convention.



George Lawhon Crain, Jr. was born April 13, 1947 in Shreveport, Louisiana to George and Azalie Crain. At 7 years of age, his family relocated to Lafayette, Louisiana, where he spent most of his life. He died peacefully at his home in the LeBlanc community of Vermilion parish on February 28, 2021, with his wife at his side. After graduating from Lafayette High School, George attended both LSU and Nicholls State University. Following graduation, George served in the finance corps of the US Army stationed in Germany. After his military service, George returned to Lafayette and, at the age of 27, became president of WHC, Inc., a pipeline construction company co-founded by his father. George's innovations in business led him to initiate a captive insurance group of contractors throughout the United States of which he served as founder and president. Under his leadership, WHC became an industry leader and in 2014 was sold, allowing George to enjoy travel and more time to spend with family and friends. In 1998, George and his wife had moved from Lafayette to Vermilion parish where he enjoyed country life immensely. There they were able to host family and friends, often sharing his ample wine collection and enjoying a good meal! George gave to his community and state through service as a public member of the Louisiana Attorneys Disciplinary Board. He served on the board of directors of the Lafayette

Bayou Vermilion District, the Vermilionville Historical Society, the Musket Club, and the Louisiana Contractors Licensing board. He was active in many Mardi Gras activities. He served as a duke for the Krewe of Attakapas, a duke and king of the Order of the Troubadours, and a duke of the Krewe of Gabriel. He was also active for many years in the Chaine des Rotisseurs, an organization dedicated to gastronomy. George was also passionate about hunting and fishing. He spent many daybreaks in duck blinds across South Louisiana with his faithful dogs and good friends. Both his father and son shared that passion and they spent many hours together at their duck camp. He also hunted doves in Argentina with friends, as well as fishing in the gulf and as far as Canada with the BCB Angler's Club. George developed Multiple Sclerosis, as well as other health issues, but it did not deter his drive and determination to continue living life to the fullest. In later years, as his health declined, although he lost the ability to hunt and fish, his other interests continued unabated. George loved to travel, and he and Marilyn traveled extensively often inviting friends and family to join them on their explorations. His perseverance, courage, and grace, despite his burdens, serve as an example to us all. George is survived by his devoted wife Marilyn Crain, his children Carolyn Broussard (Mark) of Lafayette, Creighton Crain (Lori) of Lafayette, Allison Lagasse (Manard) of Baton Rouge, and Stephen Istre of Portland OR; his grandchildren Camille Lagasse, Matthew Broussard, Emily Broussard, Zackary Crain, and Azalie Crain, as well as his sister Azalie Holland. He was preceded in death by his parents. Pallbearers were Creighton Crain, Mark Broussard, Stephen Istre, Manard Lagasse, Dr. Stephen Abshire, Dr. Jim Adams, Edwin Preis, John Chappuis, and Michael McKenzie. Honorary pallbearers included Matthew Broussard, Zackary Crain, Richard Dickerson, Georges Guy, John Touns, Wallace McMakin, Randy Haynie, Don Burts and Allen Roy Ingram. Donations to the Moncus Park Inclusive Playground may be mailed to Moncus Park 2901 Johnston Street, Suite 304 Lafayette LA 70503.

Charles Albert Riley, 64, of Waynesburg, died March 23, 2021, at home. He was born April 4, 1956, in Waynesburg, a son of the late Lonnie Lee Riley and Louise Marie Redman Riley. Mr. Riley was a heavy equipment operator for Henkels & McCoy and Michels Pipeline installing fiber optics until retiring in 2000. He loved spending time with his grandchildren and absolutely loved making everyone laugh. His wife, Juanita Lee Oliver Riley, whom he married April 20, 1993, survives. Also surviving are one daughter, Normam Jean Riley of Waynesburg; two stepdaughters, Ashley (Matthew) Copper of West Virginia and Amanda Fox of Cameron, W.Va.; three grandchildren; eight sisters; two brothers; and several nieces and nephews. Deceased are several sisters and brothers. Charles wanted us all to remember one thing- "P.S. Feed Jake, he's been a good dog."



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