		Sout	hern Star 2019 Pla	nned Service C	<mark>Outage</mark>		Historical Average ID3 Sch	eduled Volume
		Work A	ctivity			Oper	rational Capacity Information	
Status	Projected Start Date	Projected Return to Normal Date	Location(s)	Type of Work	Мар	Capacity After Reduction	% Reduction from Normal Operational Capacity	Constraint Area(s)
	August 12, 2019	August 17, 2019	Hoxie C/S	Hoxie Painting	Map	165,000 Dth/d Levant Station (Location 445577)	15% Reduction - (Location 445577)	Rawlins Hesston
NEW	August 14, 2019	August 17, 2019	Saginaw C/S	Saginaw Unit Maintenance	<u>Map</u>	175,000 Dth/d Saginaw Station (Location 444550)	27% Reduction - (Location 444550)	Springfield, Jane
	August 20, 2019	August 22, 2019	Woods Co, OK	Mainline Valve Repair	<u>Map</u>	0 Dth/d Canadian Blackwell Rec (Location 444580) 0 Dth/d Canadian Blackwell Del (Location 444586) This is a net zero constraint - Receipts and Deliveries Must Balance 0 Dth/d EOIT Alfalfa (Location 17068)	100% Reduction - (Location 17068)	Canadian Blackwell
	August 27, 2019	August 29, 2019	Cleveland Co, OK	Modernization HDD for Pipeline Exposure	<u>Map</u>	0 Dth/d Cement System Receipt (443403) 0 Dth/d Cement System Delivery (443400) This is a net zero constraint - Receipts and Deliveries Must Balance 0 Dth/d South Maysville Delivery (444003) Deliveries cannot exceed receipts 0 Dth/d Oklahoma Cogeneration Plant (Location 41)	100% Reduction - (Location 41)	South of Edmond
	September 3, 2019	September 27, 2019	Yuma, St. Francis and Otis C/S	Yuma Unit Maintenance and Modernization St. Francis / Otis NEC Panel Replacement	<u>Map</u>	165,000 Dth/d Levant Station (Location 445577)	15% Reduction - (Location 445577)	Rawlins Hesston
	September 9, 2019	September 14, 2019	Saginaw C/S	Saginaw Unit Maintenance	<u>Map</u>	200,000 Dth/d Saginaw Station (Location 444550)	17% Reduction - (Location 444550)	Springfield, Jane
	September 9, 2019	September 14, 2019	Riner C/S	Modernization AMOT Temperature Control Valve Installation and Echo Springs OPP Installation	<u>Map</u>	85,000 Dth/d Riner Station (Location 445569) 0 Dth/d Echo Springs (Location 16294) 0 Dth/d PSCO Chalk Bluffs (Location 52) 0 Dth/d Riner Delivery Constraint (444902) Deliveries cannot exceed receipts	56% Reduction - (Location 445569) 100% Reduction Echo Springs - (Location 16294) 100% Reduction - (Location 52)	Rawlins Hesston
	September 16, 2019	September 21, 2019	Peculiar C/S	Peculiar Unit Maintenance	<u>Map</u>	200,000 Dth/d Sedalia @ Ottawa (Location 442350)	13% Reduction - (Location 442350)	Sedalia, Carrollton
	September 17, 2019	September 26, 2019	Edmond C/S	Edmond Unit Maintenance	<u>Map</u>	100,000 Dth/d Edmond Station (Location 445535)	23% Reduction - (Location 445535)	South of Edmond, Oklahoma Other
	September 24, 2019	November 1, 2019	Levant C/S,Yuma C/S and St. Francis C/S	Levant Unit Maintenance, Modernization NEC Panel Replacement, Painting and Yuma Unit Maintenance, Modernization Install of Electronic Fuel Checks	Мар	165,000 Dth/d Levant Station (Location 445577)	15% Reduction - (Location 445577)	Rawlins Hesston

		Work A	ctivity			Operational Capacity Information									
Status	Projected Start Date	Projected Start Date Projected Return to Normal Date		Type of Work	Мар	Capacity After Reduction	% Reduction from Normal Operational Capacity	Constraint Area(s)							
	September 30, 2019	October 4, 2019	Cheyenne C/S	Cheyenne Modernization NEC Panel Replacement	<u> Map</u>	0 Dth/d PSCO Chalk Bluffs (Location 52) Cheyenne Light Fuel & Power (Location 16998) available but upstream pressure may occasionally fall below 700 PSIG pressure commitment posted on EBB under "System Minimum Pressures"	100% Reduction - (Location 52)	Rawlins Hesston							
	October 1, 2019	November 1, 2019	Saginaw C/S	Saginaw Turbine Maintenance and Modernization Upgrades	<u>Map</u>	150,000 Dth/d Saginaw Station (Location 444550)	37% Reduction - (Location 444550)	Springfield, Jane							
	October 1, 2019	October 8, 2019	Blackwell C/S	Blackwell Unit Maintenance	<u>Map</u>	420,000 Dth/d Blackwell West (Location 449000) 100,000 Dth/d Edmond Blackwell (Location 443800) (If turbine is in service, posting will be removed due to no impact to customers)	15% Reduction - (Location 449000) 23% Reduction- (Location 443800)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, Oklahoma Other							
	October 1, 2019	October 3, 2019	Ratliff C/S	Ratliff Unit Maintenance	<u>Map</u>	40,000 Dth/d NGPL Carter County (Location 17069)	53% Reduction - NGPL Carter County (Location 17069)	South of Edmond							
	October 1, 2019	October 3, 2019	Montezuma C/S	Modernization - Replace PLC's at Montezuma	<u>Map</u>	250,000 Dth/d Kansas Hugoton (441300)	35% Reduction - (Location 441300)	Kansas Hugoton							
	October 8, 2019	October 9, 2019	Edmond C/S	Edmond ESD Testing	<u>Map</u>	20,000 Dth/d Edmond CS (Location 445535) 0 Dth/d West Edmond CS (Location 444001) 0 Dth/d Oklahoma Cogen (Location 41)	85% Reduction - (Location 445535) 100% Reduction - (Location 444001) 100% Reduction - (Location 41)	South of Edmond, Oklahoma Other							
	October 15, 2019	October 22, 2019	Blackwell C/S	Blackwell Unit Maintenance	<u>Map</u>	420,000 Dth/d Blackwell West (Location 449000) 100,000 Dth/d Edmond Blackwell (Location 443800) (If turbine is in service, posting will be removed due to no impact to customers)	15% Reduction - (Location 449000) 23% Reduction- (Location 443800)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, Oklahoma Other							
	October 22, 2019	October 25, 2019	Oklahoma Co, OK	Smart Pigging	<u>Map</u>	30,000 Dth/d South Maysville Rec (Location 444002) 75,000 Dth/d NGPL Carter County (Location 17069) 0 Dth/d Oklahoma Cogen (Location 41)	76% Reduction - (Location 444002) 12% Reduction - (Location 17069) 100% Reduction - (Location 41)	South of Edmond							
	October 23, 2019	October 24, 2019	Blackwell C/S & Grabham C/S	Blackwell North Station ESD Testing & Grabham Station ESD Testing	I Man	320,000 Dth/d Blackwell CS (Location 445511)	49% Reduction - (Location 445511)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, South Edmond, Oklahoma Other							
	October 24, 2019	October 25, 2019	Blackwell C/S	Blackwell South Station ESD Testing	<u>Map</u>	320,000 Dth/d Blackwell West (Location 449000) 100,000 Dth/d Edmond Blackwell (Location 443800) (If turbine is in service, posting will be removed due to no impact to customers)	35% Reduction - (Location 449000) 23% Reduction- (Location 443800)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, Oklahoma Other							
	November 4, 2019	November 12, 2019	Blackwell C/S	Blackwell Unit Maintenance	<u>Map</u>	290,000 Dth/d Blackwell West (Location 449000) 420,000 Dth/d Blackwell Station (Location 445511) (If turbine is in service, posting will be removed due to no impact to customers)	40% Reduction - (Location 449000) 28% Reduction - (Location 445511)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, South Edmond, Oklahoma Other							
REVISED	November 19, 2019	November 23, 2019	Noble Co, OK	Smart Pigging	<u>Map</u>	0 Dth/d ETC Crescent (Location 16999) 0 Dth/d EOIT Noble (Location 15011) 75,000 Dth/d NGPL Carter County (Location 17069) 40,000 Dth/d Edmond C/S (Location 445535)	100% Reduction - (Location 16999) 100% Reduction - (Location 15011) 12% Reduction - (Location 17069) 62% Reduction - (Location 445535)	Blackwell Edmond							

		Work Ad	ctivity			Oper	rational Capacity Information	
Status	Projected Start Date	Projected Return to Normal Date	Location(s)	Type of Work	Мар	Capacity After Reduction	% Reduction from Normal Operational Capacity	Constraint Area(s)
	December 3, 2019	December 10, 2019	Blackwell C/S	Blackwell Unit Maintenance	<u>Map</u>	290,000 Dth/d Blackwell West (Location 449000) 420,000 Dth/d Blackwell Station (Location 445511) (If turbine is in service, posting will be removed due to no impact to customers)	40% Reduction - (Location 449000) 28% Reduction - (Location 445511)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, South Edmond, Oklahoma Other

July																							Aug	ust																						
1 2	2 3	4 5	6 7	8	9 10	0 11	12	13	14 1	.5 10	5 17	18	19 2	0 21	. 22	23 2	24 2	5 26	27	28	29 3	30 31	1	2	3 4	5	6	7 8	9	10	11	12	13 1	4 15	16	17 1	18 19	9 20	21	22 2	3 24	1 25	26 2	27 28	8 29	30 31
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July 1	2 3	4 5	6 7	7 8	9 10	0 11	12	13	14 1	5 16	5 17	18	19 2	0 21	22	23 :	24 2	5 26	27	28	29 3	30 31	Aug 1	ust 2	3 4	5	6	7 8	3 9	10	11	12	13 1	4 15	16	17	18 10	9 20	21	22 2	3 24	1 25	26	27 29	8 29	30 31

^{*} Shaded areas indicate a reduction in capacity

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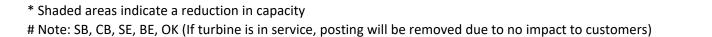
September October 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
September October
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 30 30

^{*} Shaded areas indicate a reduction in capacity

[#] Note: SB, CB, BE, OK (If turbine is in service, posting will be removed due to no impact to customers)

November	December
1 2 3 4 5 6 7 8 9 10 11 12 13 1	1 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 3 4 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30
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November	December 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

^{*} Shaded areas indicate a reduction in capacity



* Shaded areas indicate a reduction in capacity # Note: SB, CB, SE, BE, OK (If turbine is in service, posting will be removed due to no impact to customers)