

Scenario 8

Year	Retirements	Expansion Plan		Expansion Plan		Expansion Plan	
		Base Case	High Load	Low Load	High Gas		
2018							
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW						
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW						
2021	PLANT X 2 -90 MW						
2022	SD_RCH 1 -5 MW						
2023	NICHOLS 1 -112 MW						
2024	NICHOLS 2 -112 MW						
2025	PLANT X 3 -93 MW CAPROCK -11 MW						
2026	SAN JUAN -8 MW MADDOX 2 -59 MW CUNNING 2 -183 MW						
2027	WILDRADO -21 MW						
2028	SPINPUR -40 MW PLANT X 4 -191 MW		Short Term Purchase 94 MW				
2029	MADDOX 1 -112 MW		GEN_CT 6 201 MW Short Term Purchase 41 MW				
2030			Short Term Purchase 92 MW				
2031	NICHOLS 3 -250 MW	Short Term Purchase 57 MW	GEN_CC 5 771 MW				Short Term Purchase 57 MW
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CT 6 201 MW GEN_CT 5 201 MW					GEN_CT 6 201 MW GEN_CT 5 201 MW
2033							
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW Short Term Purchase 40 MW	GEN_CC 6 771 MW			GEN_CC 5 771 MW
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW Short Term Purchase 73 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW				GEN_CT 5 201 MW Short Term Purchase 73 MW
2036	ROOSEVEL -49 MW	Short Term Purchase 96 MW	Short Term Purchase 2 MW				Short Term Purchase 96 MW
2037	HARRING 1 -342 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CT 5 201 MW			GEN_CC 5 771 MW

Scenario 8

Year	Retirements	Expansion Plan			Expansion Plan		
		Low Gas	Low CO <sub>2</sub>	Mid CO <sub>2</sub>	High CO <sub>2</sub>		
2018							
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW						
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW PLANT X 2 -90 MW SD_RCH 1 -5 MW NICHOLS 1 -112 MW NICHOLS 2 -112 MW						
2021							
2022							
2023							
2024							
2025	PLANT X 3 -93 MW CAPROCK -11 MW						
2026	SAN JUAN -8 MW MADDOX 2 -59 MW CUNNING 2 -183 MW WILDRADO -21 MW						
2027							
2028	SPINPUR -40 MW PLANT X 4 -191 MW MADDOX 1 -112 MW						
2029							
2030							
2031	NICHOLS 3 -250 MW	Short Term Purchase 57 MW	Short Term Purchase 57 MW	Short Term Purchase 57 MW	Short Term Purchase 57 MW	Short Term Purchase 57 MW	
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CT 6 201 MW GEN_CT 5 201 MW	GEN_CT 6 201 MW GEN_CT 5 201 MW	GEN_CT 6 201 MW GEN_CT 5 201 MW	GEN_CT 6 201 MW GEN_CT 5 201 MW	GEN_CT 6 201 MW GEN_CT 5 201 MW	
2033							
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW Short Term Purchase 73 MW	GEN_CT 5 201 MW Short Term Purchase 73 MW	GEN_CT 5 201 MW Short Term Purchase 73 MW	GEN_CT 5 201 MW Short Term Purchase 73 MW	GEN_CT 5 201 MW Short Term Purchase 73 MW	
2036	ROOSEVEL -49 MW	Short Term Purchase 96 MW	Short Term Purchase 96 MW	Short Term Purchase 96 MW	Short Term Purchase 96 MW	Short Term Purchase 96 MW	
2037	HARRING 1 -342 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	

Scenario 4

Year	Retirements	Expansion Plan		
		Base Case	High Load	Low Load
		Expansion Plan		Expansion Plan
		High Load	Low Load	High Gas
2018				
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW			
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW PLANT X 2 -90 MW SD_RCH 1 -5 MW			
2021	NICHOLS 1 -112 MW			
2022	NICHOLS 2 -112 MW			
2023	PLANT X 3 -93 MW CAPROCK -11 MW			
2024	SAN JUAN -8 MW MADDOX 2 -59 MW CUNNING 2 -183 MW			
2025	WILDRADO -21 MW TOLK 2 -541 MW TOLK 1 -537 MW SPINPUR -40 MW PLANT X 4 -191 MW	GEN_CC 6 771 MW	GEN_CT 6 201 MW GEN_CC 5 771 MW	GEN_CC 6 771 MW
2026	MADDOX 1 -112 MW		GEN_CT 5 201 MW	
2027	NICHOLS 3 -250 MW	Short Term Purchase 53 MW Short Term Purchase 75 MW	GEN_CT 5 201 MW GEN_CC 5 771 MW	Short Term Purchase 53 MW Short Term Purchase 75 MW GEN_CT 5 201 MW GEN_CT 5 201 MW
2028	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW		GEN_CT 5 201 MW Short Term Purchase 11 MW
2029	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	Short Term Purchase 25 MW GEN_CC 5 771 MW Short Term Purchase 58 MW	GEN_CC 5 771 MW	Short Term Purchase 25 MW GEN_CC 5 771 MW Short Term Purchase 58 MW
2030	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW		GEN_CT 5 201 MW GEN_CT 5 201 MW
2031	ROOSEVEL -49 MW HARRING 1 -342 MW	GEN_CC 5 771 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CC 5 771 MW GEN_CT 5 201 MW GEN_CT 5 201 MW
2032				
2033				
2034				
2035				
2036				
2037				

Scenario 4

Year	Retirements	Expansion Plan			Expansion Plan High CO <sub>2</sub>
		Low Gas	Low CO <sub>2</sub>	Mid CO <sub>2</sub>	
2018					
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW				
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW PLANT X 2 -90 MW SD_RCH 1 -5 MW				
2021	NICHOLS 1 -112 MW				
2022	NICHOLS 2 -112 MW				
2023	PLANT X 3 -93 MW CAPROCK -11 MW				
2024	SAN JUAN -8 MW MADDOX 2 -59 MW CUNNING 2 -183 MW				
2025	WILDRADO -21 MW TOLK 2 -541 MW TOLK 1 -537 MW SPINPUR -40 MW PLANT X 4 -191 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW
2026	MADDOX 1 -112 MW				
2027	NICHOLS 3 -250 MW	Short Term Purchase 53 MW Short Term Purchase 75 MW	Short Term Purchase 53 MW Short Term Purchase 75 MW	Short Term Purchase 53 MW Short Term Purchase 75 MW	Short Term Purchase 53 MW Short Term Purchase 75 MW
2028	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW GEN_CT 5 201 MW Short Term Purchase 11 MW
2029	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	Short Term Purchase 25 MW GEN_CC 5 771 MW Short Term Purchase 58 MW	Short Term Purchase 25 MW GEN_CC 5 771 MW Short Term Purchase 58 MW	Short Term Purchase 25 MW GEN_CC 5 771 MW Short Term Purchase 58 MW	Short Term Purchase 25 MW GEN_CC 5 771 MW Short Term Purchase 58 MW
2030	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW ROOSEVEL -49 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW
2031	HARRING 1 -342 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW
2032					
2033					
2034					
2035					
2036					
2037					

Scenario 6

Year	Retirements	Expansion Plan		Expansion Plan		Expansion Plan	
		Base Case	High Load	Low Load	High Gas		
2018							
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW						
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW						
2021	PLANT X 2 -90 MW						
2022	SD_RCH 1 -5 MW						
2023	NICHOLS 1 -112 MW						
2024	NICHOLS 2 -112 MW						
2025	PLANT X 3 -93 MW CAPROCK -11 MW						
2026	SAN JUAN -8 MW MADDOX 2 -59 MW CUNNING 2 -183 MW						
2027	WILDRADO -21 MW TOLK 1 -537 MW		GEN_CC 6 771 MW				
2028	SPINSPUR -40 MW PLANT X 4 -191 MW	GEN_CT 6 201 MW				GEN_CT 6 201 MW	
2029	MADDOX 1 -112 MW	Short Term Purchase 83 MW					Short Term Purchase 83 MW
2030	TOLK 2 -541 MW	GEN_CC 5 771 MW		GEN_CC 6 771 MW		GEN_CC 5 771 MW	GEN_CT 5 201 MW
2031	NICHOLS 3 -250 MW	GEN_CT 5 201 MW				GEN_CT 5 201 MW	Short Term Purchase 11 MW
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW					
2033			Short Term Purchase 66 MW				
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW Short Term Purchase 58 MW		GEN_CC 5 771 MW		GEN_CC 5 771 MW	Short Term Purchase 58 MW
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW		GEN_CT 5 201 MW Short Term Purchase 46 MW		GEN_CT 5 201 MW	GEN_CT 5 201 MW
2036	ROOSEVEL -49 MW		Short Term Purchase 90 MW				
2037	HARRING 1 -342 MW	GEN_CC 5 771 MW		GEN_CT 5 201 MW GEN_CT 5 201 MW		GEN_CT 5 201 MW	GEN_CC 5 771 MW

Scenario 6

Year	Retirements	Expansion Plan			Expansion Plan	
		Low Gas	Low CO <sub>2</sub>	Mid CO <sub>2</sub>	High CO <sub>2</sub>	
2018						
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW					
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW					
2021	PLANT X 2 -90 MW					
2022	SD_RCH 1 -5 MW					
2023	NICHOLS 1 -112 MW					
2024	NICHOLS 2 -112 MW					
2025	PLANT X 3 -93 MW CAPROCK -11 MW					
2026	SAN JUAN -8 MW MADDOX 2 -59 MW CUNNING 2 -183 MW					
2027	WILDRADO -21 MW TOLK 1 -537 MW					
2028	SPINSPUR -40 MW PLANT X 4 -191 MW	GEN_CT 6 201 MW	GEN_CT 6 201 MW	GEN_CT 6 201 MW	GEN_CT 6 201 MW	
2029	MADDOX 1 -112 MW	Short Term Purchase 83 MW GEN_CT 5 771 MW	Short Term Purchase 83 MW GEN_CT 5 771 MW	Short Term Purchase 83 MW GEN_CT 5 771 MW	Short Term Purchase 83 MW GEN_CT 5 771 MW	
2030	TOLK 2 -541 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	
2031	NICHOLS 3 -250 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW	
2033						
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CT 5 771 MW Short Term Purchase 58 MW	GEN_CT 5 771 MW Short Term Purchase 58 MW	GEN_CT 5 771 MW Short Term Purchase 58 MW	GEN_CT 5 771 MW Short Term Purchase 58 MW	
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	
2036	ROOSEVEL -49 MW					
2037	HARRING 1 -342 MW	GEN_CT 5 771 MW	GEN_CT 5 771 MW	GEN_CT 5 771 MW	GEN_CT 5 771 MW	

Scenario 7d

Year	Retirements	Expansion Plan		Expansion Plan		Expansion Plan	
		Base Case	High Load	Low Load	High Gas		
2018							
2019	COOK_CT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW						
2020	TOLK 1 -537 MW PLANT X 1 -41 MW CUNNING 1 -73 MW PLANT X 2 -90 MW						
2021	SD RCH 1 -5 MW						
2022	NICHOLS 1 -112 MW						
2023	NICHOLS 2 -112 MW						
2024	PLANT X 3 -93 MW						
2025	CAPROCK -11 MW				GEN_CT 6 201 MW		
2026	SAN JUAN -8 MW MADDOX 2 -61 MW CUNNING 2 -183 MW	GEN_CC 6 771 MW	GEN_CC 5 771 MW			GEN_CC 6 771 MW	
2027	WILDRADO -21 MW TOLK 2 -541 MW						
2028	SPINPUR -40 MW PLANT X 4 -191 MW				GEN_CT 5 201 MW		
2029	MADDOX 1 -112 MW				GEN_CT 5 201 MW		
2030		Short Term Purchase 53 MW	Short Term Purchase 35 MW				Short Term Purchase 53 MW
2031	NICHOLS 3 -250 MW	Short Term Purchase 75 MW	Short Term Purchase 26 MW				Short Term Purchase 75 MW
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 771 MW				GEN_CT 5 201 MW GEN_CT 5 201 MW GEN_CT 5 201 MW Short Term Purchase 11 MW
2033		Short Term Purchase 25 MW					Short Term Purchase 25 MW
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW Short Term Purchase 58 MW	GEN_CC 5 771 MW				GEN_CC 5 771 MW Short Term Purchase 58 MW
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW Short Term Purchase 46 MW				GEN_CT 5 201 MW GEN_CT 5 201 MW
2036	ROOSEVEL -49 MW						
2037	HARRING 1 -342 MW	GEN_CC 5 771 MW	Short Term Purchase 90 MW GEN_CC 5 771 MW				GEN_CT 5 201 MW GEN_CT 5 201 MW

Scenario 7d

Year	Retirements	Expansion Plan		Expansion Plan		Expansion Plan	
		Low Gas	Low CO <sub>2</sub>	Mid CO <sub>2</sub>	High CO <sub>2</sub>		
2018							
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW						
2020	TOLK 1 -537 MW PLANT X 1 -41 MW CUNNING 1 -73 MW PLANT X 2 -90 MW						
2021	SD RCH 1 -5 MW						
2022	NICHOLS 1 -112 MW						
2023	NICHOLS 2 -112 MW						
2024	PLANT X 3 -93 MW						
2025	CAPROCK -11 MW						
2026	SAN JUAN -8 MW MADDOX 2 -61 MW CUNNING 2 -183 MW	GEN_CC 6 771 MW			GEN_CC 6 771 MW		GEN_CC 6 771 MW
2027	WILDRADO -21 MW TOLK 2 -541 MW						
2028	SPINPUR -40 MW PLANT X 4 -191 MW						
2029	MADDOX 1 -112 MW	Short Term Purchase 53 MW			Short Term Purchase 53 MW		Short Term Purchase 53 MW
2030		Short Term Purchase 75 MW			Short Term Purchase 75 MW		Short Term Purchase 75 MW
2031	NICHOLS 3 -250 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW			GEN_CT 5 201 MW GEN_CT 5 201 MW		GEN_CT 5 201 MW GEN_CT 5 201 MW
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW			GEN_CT 5 201 MW Short Term Purchase 11 MW		GEN_CT 5 201 MW Short Term Purchase 11 MW
2033		Short Term Purchase 2.5 MW			Short Term Purchase 2.5 MW		Short Term Purchase 2.5 MW
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW Short Term Purchase 58 MW			GEN_CC 5 771 MW Short Term Purchase 58 MW		GEN_CC 5 771 MW Short Term Purchase 58 MW
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW			GEN_CT 5 201 MW GEN_CT 5 201 MW		GEN_CT 5 201 MW GEN_CT 5 201 MW
2036	ROOSEVEL -49 MW						
2037	HARRING 1 -342 MW	GEN_CC 5 771 MW			GEN_CC 5 771 MW		GEN_CC 5 771 MW



Scenario 9C

Year	Retirements	Expansion Plan			Expansion Plan	
		Base Case	High Load	Low Load	High Gas	High Gas
2018						
2019	COOK_CT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW					
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW					
2021	PLANT X 2 -90 MW					
2022	SD_RCH 1 -5 MW					
2023	NICHOLS 1 -112 MW					
2024	NICHOLS 2 -112 MW					
2025	PLANT X 3 -93 MW CAPROCK -11 MW					
2026	SAN JUAN -8 MW MADDOX 2 -61 MW CUNNING 2 -183 MW					
2027	WILDRADO -21 MW					
2028	SPINPUR -40 MW PLANT X 4 -191 MW		Short Term Purchase 76 MW			
2029	MADDOX 1 -112 MW		GEN_CT 6 201 MW Short Term Purchase 23 MW Short Term Purchase 74 MW			
2030						
2031	NICHOLS 3 -250 MW	Short Term Purchase 39 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW		Short Term Purchase 39 MW	
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CC 6 771 MW	GEN_CT 5 771 MW GEN_CC 5 771 MW		GEN_CC 6 771 MW	
2033	TOLK 2 -541 MW TOLK 1 -537 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 6 771 MW	GEN_CC 5 771 MW	
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW Short Term Purchase 46 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	
2036	ROOSEVEL -49 MW	Short Term Purchase 15 MW	Short Term Purchase 90 MW		Short Term Purchase 15 MW	
2037	HARRING 1 -342 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CC 5 771 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	

Scenario 9C

Year	Retirements	Expansion Plan			Expansion Plan		
		Low Gas	Low CO <sub>2</sub>	Mid CO <sub>2</sub>	High CO <sub>2</sub>		
2018							
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW						
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW						
2021	PLANT X 2 -90 MW						
2022	SD_RCH 1 -5 MW						
2023	NICHOLS 1 -112 MW						
2024	NICHOLS 2 -112 MW						
2025	PLANT X 3 -93 MW CAPROCK -11 MW						
2026	SAN JUAN -8 MW MADDOX 2 -61 MW CUNNING 2 -183 MW						
2027	WILDRADO -21 MW						
2028	SPINSPUR -40 MW PLANT X 4 -191 MW						
2029	MADDOX 1 -112 MW						
2030							
2031	NICHOLS 3 -250 MW	Short Term Purchase 39 MW	Short Term Purchase 39 MW	Short Term Purchase 39 MW	Short Term Purchase 39 MW	Short Term Purchase 39 MW	
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW	
2033	TOLK 2 -541 MW TOLK 1 -537 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	
2036	ROOSEVEL -49 MW	Short Term Purchase 15 MW	Short Term Purchase 15 MW	Short Term Purchase 15 MW	Short Term Purchase 15 MW	Short Term Purchase 15 MW	
2037	HARRING 1 -342 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	

Scenario 10

Year	Retirements	Expansion Plan		Expansion Plan		Expansion Plan	
		Base Case	High Load	Low Load	High Gas		
2018							
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW						
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW						
2021	PLANT X 2 -90 MW						
2022	SD_RCH 1 -5 MW						
2023	NICHOLS 1 -112 MW						
2024	NICHOLS 2 -112 MW						
2025	PLANT X 3 -93 MW CAPROCK -11 MW						
2026	SAN JUAN -8 MW MADDOX 2 -61 MW CUNNING 2 -183 MW						
2027	WILDRADO -21 MW						
2028	SPINSPUR -40 MW PLANT X 4 -191 MW		Short Term Purchase 76 MW				
2029	MADDOX 1 -112 MW		GEN_CC 6 771 MW				
2030	TOLK 2 -541 MW TOLK 1 -537 MW	GEN_CC 6 771 MW Short Term Purchase 75 MW	GEN_CC 5 771 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW Short Term Purchase 75 MW	
2031	NICHOLS 3 -250 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW			GEN_CT 5 201 MW GEN_CT 5 201 MW	
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 201 MW			GEN_CT 5 201 MW Short Term Purchase 11 MW	
2033		Short Term Purchase 25 MW	Short Term Purchase 66 MW			Short Term Purchase 25 MW	
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW Short Term Purchase 58 MW	GEN_CT 5 201 MW GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW Short Term Purchase 58 MW	
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW Short Term Purchase 46 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	
2036	ROOSEVEL -49 MW		Short Term Purchase 90 MW				
2037	HARRING 1 -342 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CC 5 771 MW	

Scenario 10

Year	Retirements	Expansion Plan			Expansion Plan	
		Low Gas	Low CO <sub>2</sub>	Mid CO <sub>2</sub>	High CO <sub>2</sub>	
2018						
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW					
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW					
2021	PLANT X 2 -90 MW					
2022	SD_RCH 1 -5 MW					
2023	NICHOLS 1 -112 MW					
2024	NICHOLS 2 -112 MW					
2025	PLANT X 3 -93 MW CAPROCK -11 MW					
2026	SAN JUAN -8 MW MADDOX 2 -61 MW CUNNING 2 -183 MW					
2027	WILDRADO -21 MW					
2028	SPINSPUR -40 MW PLANT X 4 -191 MW					
2029	MADDOX 1 -112 MW					
2030	TOLK 2 -541 MW TOLK 1 -537 MW	GEN_CC 6 771 MW Short Term Purchase 75 MW	GEN_CC 6 771 MW Short Term Purchase 75 MW	GEN_CC 6 771 MW Short Term Purchase 75 MW	GEN_CC 6 771 MW Short Term Purchase 75 MW	
2031	NICHOLS 3 -250 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW	GEN_CT 5 201 MW Short Term Purchase 11 MW	
2033		Short Term Purchase 25 MW	Short Term Purchase 25 MW	Short Term Purchase 25 MW	Short Term Purchase 25 MW	
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW Short Term Purchase 58 MW	GEN_CC 5 771 MW Short Term Purchase 58 MW	GEN_CC 5 771 MW Short Term Purchase 58 MW	GEN_CC 5 771 MW Short Term Purchase 58 MW	
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	
2036	ROOSEVEL -49 MW					
2037	HARRING 1 -342 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	

Scenario 11

Year	Retirements	Expansion Plan		Expansion Plan		Expansion Plan	
		Base Case	High Load	Low Load	High Gas		
2018							
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW						
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW						
2021	PLANT X 2 -90 MW						
2022	SD_RCH 1 -5 MW						
2023	NICHOLS 1 -112 MW						
2024	NICHOLS 2 -112 MW						
2025	PLANT X 3 -93 MW CAPROCK -11 MW						
2026	SAN JUAN -8 MW MADDOX 2 -61 MW CUNNING 2 -183 MW						
2027	WILDRADO -21 MW						
2028	SPINSPUR -40 MW PLANT X 4 -191 MW						
2029	MADDOX 1 -112 MW		GEN_CC 6 771 MW				
2030							
2031	NICHOLS 3 -250 MW	Short Term Purchase 39 MW					Short Term Purchase 39 MW
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CC 6 771 MW	Short Term Purchase 87 MW				GEN_CC 6 771 MW
2033	TOLK 2 -541 MW TOLK 1 -537 MW	GEN_CC 5 771 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW GEN_CC 5 771 MW Short Term Purchase 66 MW	GEN_CC 6 771 MW			GEN_CC 5 771 MW
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW	GEN_CT 5 201 MW GEN_CC 5 771 MW	GEN_CC 5 771 MW			GEN_CC 5 771 MW
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW Short Term Purchase 46 MW	GEN_CT 5 201 MW			GEN_CT 5 201 MW
2036	ROOSEVEL -49 MW	Short Term Purchase 15 MW	Short Term Purchase 90 MW				Short Term Purchase 15 MW
2037	HARRING 1 -342 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CC 5 771 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW			GEN_CT 5 201 MW GEN_CT 5 201 MW

Scenario 11

Year	Retirements	Expansion Plan Low Gas	Expansion Plan Low CO <sub>2</sub>	Expansion Plan Mid CO <sub>2</sub>	Expansion Plan High CO <sub>2</sub>
2018					
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW				
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW				
2021	PLANT X 2 -90 MW				
2022	SD_RCH 1 -5 MW				
2023	NICHOLS 1 -112 MW				
2024	NICHOLS 2 -112 MW				
2025	PLANT X 3 -93 MW CAPROCK -11 MW				
2026	SAN JUAN -8 MW MADDOX 2 -61 MW CUNNING 2 -183 MW				
2027	WILDRADO -21 MW				
2028	SPINSPUR -40 MW PLANT X 4 -191 MW				
2029	MADDOX 1 -112 MW				
2030					
2031	NICHOLS 3 -250 MW	Short Term Purchase 39 MW	Short Term Purchase 39 MW	Short Term Purchase 39 MW	Short Term Purchase 39 MW
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW	GEN_CC 6 771 MW
2033	TOLK 2 -541 MW TOLK 1 -537 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW
2036	ROOSEVEL -49 MW	Short Term Purchase 15 MW	Short Term Purchase 15 MW	Short Term Purchase 15 MW	Short Term Purchase 15 MW
2037	HARRING 1 -342 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW

Storage Scenarios

Year	Retirements	Expansion Plan	
		Stand Alone Battery	Solar + Battery
2018			
2019	COOK_GT 2 -16 MW CALP 4 -200 MW CALP 2 -200 MW		
2020	PLANT X 1 -41 MW CUNNING 1 -73 MW		
2021	PLANT X 2 -90 MW		
2022	SD_RCH 1 -5 MW		
2023	NICHOLS 1 -112 MW		
2024	NICHOLS 2 -112 MW		
2025	PLANT X 3 -93 MW CAPROCK -11 MW		
2026	SAN JUAN -8 MW MADDOX 2 -61 MW CUNNING 2 -183 MW		
2027	WILDRADO -21 MW		
2028	SPINSPUR -40 MW PLANT X 4 -191 MW		
2029	MADDOX 1 -112 MW		
2030			
2031	NICHOLS 3 -250 MW	Short Term Purchase 39 MW	Short Term Purchase 39 MW
2032	SUNEDSN5 -7 MW SUNEDSN4 -7 MW SUNEDSN3 -7 MW SUNEDSN2 -7 MW SUNEDSN1 -7 MW JONES 1 -243 MW	BATTERY 75 MW GEN_CC 6 771 MW	BATTERY 75 MW SOLARSTG 136 MW Short Term Purchase 96 MW
2033	TOLK 2 -541 MW TOLK 1 -537 MW	GEN_CC 5 771 MW	GEN_CT 6 201 MW GEN_CT 5 201 MW GEN_CC 5 771 MW Short Term Purchase 15 MW
2034	HOBBS 1 -557 MW BLKHAWK 2 -112 MW BLKHAWK 1 -112 MW	GEN_CC 5 771 MW	GEN_CC 5 771 MW Short Term Purchase 48 MW
2035	QUAYCTY 1 -17 MW PALODURO -12 MW MAMMOTH -10 MW JONES 2 -243 MW	GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW
2036	ROOSEVEL -49 MW		
2037	HARRING 1 -342 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW	GEN_CT 5 201 MW GEN_CT 5 201 MW