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Modeling Scenario	Timeframe	Objectives / Characteristics / Change from previous scenario(s)	
2014 Shakeout v1 (actual emissions)	Dec. 2018 through early April 2019	 Compare Met and Biogenics datasets Evaluate Boundary Conditions (BCs) Uses 2014 NEIv2 data with limited corrections by states Modeling Performance Evaluation Identify Modeling Needs in Plan 	
2014 Shakeout v2 (actual emissions)	April through May 2019	 Finalize MPE results with improved inputs Re-run GEOS-Chem global model for BCs with natural / anthro. sensitivity Revised emissions – all CA anthro data, OGWG inputs Will use recommended model configuration from v1 	
2013-17 Representative Baseline (planning emissions, all subsequent runs)	May through July 2019	 Apply v2 GEOS-Chem global model BCs Revised emissions – new EGU, OGWG, and FSWG inputs reflective of current emission rates and "normal" operations "representative" annual fire emissions to smooth out variation Basis of all 2028 scenarios, will use model configuration from v1 / v2 Best reflect current emissions profile for each source potentially impacting Class I area visibility [source(s) identified from Q/d analysis] 	
Dynamic Model Evaluations (02, 14, 28)	May through Sept. 2019	 Use 2014 met, BCs, biogenics for all Actual 02 and 14 emissions, OTB for 2028 Provide modeled Regional Haze Progress for anthro emissions 	
2028 Emissions from Rules OTB / OTW	August through October 2019	 Model visibility impact / calculate RPG for each Class I area "if no additional controls" were adopted 2028 OTB emissions may be the same as the Representative Baseline rate Add international anthro contributions from Shakeout V2 Gridded emissions to be used for WEP analysis 	
2028 Source Apportionment / Sensitivity	October 2019 through early 2020	 2 sensitivity runs: increased emissions separately for wildfire and Rx fire PSAT/OSAT run for state/source sector groups 	
2028 Control Strategy Run	Jan. through March 2020	 SCC-level "potential additional" SO2 and NOx % decreases from each state Model visibility impact / calculate RPG for each Class I area "if additional controls" were to be adopted 	