		<b>Modeling Plan</b>	Carrier AAA	<b>1</b> 4 4
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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	<ul> <li>Compare Met and Biogenics datasets</li> <li>Evaluate Boundary Conditions (BCs)</li> <li>Uses 2014 NEIv2 data with limited corrections by states</li> <li>Modeling Performance Evaluation</li> <li>Identify Modeling Needs in Plan</li> </ul>
2014 Shakeout v2 (actual emissions)	May through July 2019	<ul> <li>Finalize MPE results with improved inputs</li> <li>Re-run GEOS-Chem global model for BCs with natural / anthro. sensitivity</li> <li>Revised emissions – all CA anthro data, OGWG inputs</li> <li>Will use recommended model configuration from v1</li> </ul>
Current/Representative Baseline (planning rather than year-specific emissions, basis of all subsequent runs)	June through August 2019	<ul> <li>Apply v2 GEOS-Chem global model BCs</li> <li>Revised emissions from 2014 actual, new EGU, OGWG, and FSWG inputs         <ul> <li>reflective of current emission rates and "normal" operations</li> <li>"representative" annual fire emissions to smooth out variation</li> </ul> </li> <li>Basis of all 2028 scenarios, will use model configuration from v1 / v2</li> <li>Best reflect current emissions profile for each source potentially impacting Class I area visibility [source(s) identified from Q/D analysis]</li> </ul>
Dynamic Model Evaluations (02, 14, 28)	Start Summer 2019	<ul> <li>Use 2014 met, BCs, biogenics for all</li> <li>Actual 02 and 14 emissions, OTB for 2028</li> <li>Provide modeled glide path, Regional Haze Progress for anthro emissions</li> </ul>
2028 Emissions from Rules OTB / OTW	August through October 2019	<ul> <li>Model visibility impact / calculate Reasonable Progress Goal for each Class I area "if no additional controls" were adopted</li> <li>2028 OTB emissions may be same as Current/Representative Baseline rate</li> <li>Add international anthro contributions from Shakeout V2</li> <li>Gridded emissions to be used for Weighted Emissions Potential analysis</li> </ul>
2028 Source Apportionment / Sensitivity	October 2019 through early 2020	<ul> <li>2 sensitivity runs: increased emissions separately for wildfire and Rx fire</li> <li>PSAT/OSAT run for state/source sector groups</li> </ul>
2028 Control Strategy Run	Jan. through March 2020	<ul> <li>SCC-level "potential additional" SO2, NOx, PM % decreases from each state</li> <li>Model visibility impact / calculate RPG for each Class I area "if additional controls" were to be adopted</li> </ul>