**3SAQS Technical Schedule (status report as of April 29, 2014)**

**December 2013**

* CAMx 2008 Base Case (3SAQS\_CAMx\_Base08a)
  + Status: complete
* WRF 2011 Simulation (3SAQS\_WRF\_Base11a)
  + Status: complete

**January 2014**

* 3SAQS 2008 Emissions and Air Quality Draft Modeling Protocol
  + Status: out for review Jan. 21, 2014 - comments due ~~March 5~~ now March 15th
  + Status: review complete
* 3SAQS Methane inventory memo
  + Status: out for review Jan. 21, 2014 - comments due ~~February 4~~ now March 15th
  + Status: complete
* 3SAQS\_CAMx\_Base08a Evaluation
  + Status: Graphical and statistical plots completed
  + [12-km Results](http://www.ie.unc.edu/cempd/projects/data_viewer/single.cfm?project=3SAQS) – follow menus to AQ 🡪 CAMx\_3SAQS12\_Base08a
  + Draft model performance evaluation (MPE) report due in May as part of 3SAQS\_CAMx\_Base08a Draft Final Report

**February**

* 2011 inventory collection and analysis
  + Status: NEI2011 inventory collection and analysis complete
  + Sectors not covered by NEI2011: biogenics, fires, oil and gas, lightning, windblown dust, sea salt
* Work to develop recommendations for 3SAQS monitoring network operations for 2014-17
  + Status: Workgroup recommendations completed week of February 17th
  + Recommendations to SC for 3SAQS monitoring network operations for 2014-17 on Feb. 27th
  + Status: complete

**March**

3SAQS Base11 emissions and air quality modeling

* Phase I 2011 Oil & Gas emissions inventory
  + Status: Phase I Oil & Gas Emissions review (2011 base and “low effort” 2020 projections) to be sent to UNC in mid-April
* 2011 inventory collection and analysis
  + Status: NEI2011 inventory SMOKE processing complete except for Oil & Gas analysis complete

**April**

* 3SAQS 2008 Emissions and Air Quality Draft Modeling Protocol
  + Status: complete
  + Distribute for presentation – week of April 28th
  + **Presentation and discussion – May 6th Technical Committee conference call**
* 3SAQS Methane inventory memo
  + Status: complete
  + Distribute for presentation – week of April 28th
  + **Presentation and discussion – May 6th Technical Committee conference call**
* 3SAQS\_WRF\_Base11a Evaluation
  + Status: Standard graphical and statistical plots completed
  + [4-km Results](http://www.ie.unc.edu/cempd/projects/data_viewer/single.cfm?project=3SAQS) – follow menus to MET 🡪 ANNUAL\_BASE
  + Quantitative evaluation focused on CO, UT, and WY for temperature, moisture, and winds
  + Supplemental performance evaluation in progress for precipitation and winter ozone days (snow cover, snow depth, mixing, albedo, etc.)
  + Draft model performance evaluation (MPE) report due in early May
  + **Plan is to provide status update – May 6th Technical Committee conference call**
* NEI 2008 to 2011 to 2020 inventory comparison memo due in early May
  + Address additional/detailed subsequent review in Emissions Review Tool
  + Discuss what will be happening to 2011 and 2020 in the SMOKE modeling process
  + **Plan is to provide status update – May 6th Technical Committee conference call**
* 3SAQS 2011 Emissions and Air Quality Draft Modeling Protocol
  + Status: In preparation, send out for review early May
  + **Plan is to provide status update – May 6th Technical Committee conference call**
* CAMx 2011 Base Case (3SAQS\_CAMx\_Base11a)
  + Start mid-May
  + Release protocol first
  + **Plan is to provide status update – May 6th Technical Committee conference call**
* 2020 Emissions Inventory version A and associated SMOKE modeling
  + Status: NEI2011-based 2020 modeling platform inventory collection completed
  + Begin modeling all NEI-based data in March
  + Contingent on oil and gas and natural emissions sectors
  + Distribute for review - week of May 5th
  + **Plan is to provide status update – May 6th Technical Committee conference call**

**May**

* May 6th, 1000 AM to 100 PM MDT - 3SAQS Technical Committee – 3-hour conference call to review documents and protocols and provide status reports
  + Agenda Topics
* 3SAQS 2008 Emissions and Air Quality Draft Modeling Protocol
* 3SAQS Methane inventory memo
* Phase II Oil & Gas Emissions review (2011 base improvements (if any) and progress on “higher level of effort” 2020 projections)
* Status Reports
  + 3SAQS\_WRF\_Base11a Evaluation
  + NEI 2008 to 2011 to 2020 inventory comparison
  + 3SAQS 2011 Emissions and Air Quality Draft Modeling Protocol
  + CAMx 2011 Base Case (3SAQS\_CAMx\_Base11a)
  + 2020 Emissions Inventory version A and associated SMOKE modeling
  + 3SDW development and need for periodic status reports through Sept. 2014
* 3SAQS\_CAMx\_Base08a Draft Final Report (including Model Performance Evaluation)
  + Status: in preparation, send out for review in early May
  + Comments due in May
  + **Review on June Technical Committee conference call to be scheduled**
* 3SAQS 2011 Emissions and Air Quality Draft Modeling Protocol – comments due by end of May, address comments and finalize
  + Comments due in May
  + **Review on June Technical Committee conference call to be scheduled**
* 3SAQS\_CAMx\_Base11a Evaluation
  + Status: model simulation will not start until Protocol comments are collected during May
  + **Status report on June Technical Committee conference call to be scheduled**
* 3SAQS\_WRF\_Base11a Draft Final Report - to be sent out for review in June
  + Key evaluation topics:
    - 3-state sites
    - STE indicators (mixing ratio and ozone concentration correlations)
    - Wintertime variables for future work - temperature, winds, moisture performance in CO/UT/WY, precipitation performance, winter ozone performance metrics (snow and mixing)
  + **Status report on June Technical Committee conference call to be scheduled**
* Phase II Oil & Gas Emissions review (2011 base improvements (if any) and progress on “higher level of effort” 2020 projections)
  + Status: Scope of Work proposal prepared
  + Distribute for presentation – week of April 28th
  + **Presentation and discussion – May 6th Technical Committee conference call**
* CAMx 2020 Base Case version A (3SAQS\_CAMx\_Base08\_2020a)
  + Status: Not yet started, completion contingent on receipt and processing of 2020 inventories
  + Target mid-June
* 3SAQS\_CAMx\_Base11a Draft Final Report
  + Status: Not yet started, completion contingent on Base11a Evaluation

**June**

* **June Technical Committee conference call to be scheduled**
* Develop and run CAMx 2020 Base Case version B (3SAQS\_CAMx\_Base11\_2020b)
  + Status: as needed
  + Target late July

**July**

* Technical Workshop to discuss 2008 data and modeling results / 2020 version A modeling results
* 3SAQS Base08 air quality modeling results/documentation/data files, and 2020 Base Case version A input data files/documentation – ready for application in 3-State Air Quality Study-authorized studies, ordered through Data Warehouse

**August**

No specific plans

**Sept.**

* Potential Technical Workshop to discuss 2011 data and modeling results / 2020 Base Case version B results
* Completion of 3SAQS\_CAMx\_Base11 air quality modeling results/documentation/data files, and 2020 Base Case version B input data files/documentation – ready for application in 3-State Air Quality Study-authorized studies, ordered through Data Warehouse