6.3 Scheduled Field Activities

Federal regulation provides for the implementation of a number of qualitative and quantitative checks to ensure that the data will meet the Data Quality Objectives for the project. Each of the checks attempts to evaluate phases of measurement uncertainty. The types of checks that are being used in this project are listed below.

- *Precision and Accuracy (P&A) Checks* – Used to provide an overall assessment of measurement uncertainty.
- *Zero/Span Checks* – Provide an internal quality control check of proper operation of the measurement system.
- *Annual Certifications* – A certification is the process that ensures the traceability and viability of various quality control (QC) standards. Standard traceability is the process of transferring the accuracy or authority of a primary standard to a field-usable standard.
- *Calibrations* – Calibrations are carried out at the field monitoring sites by allowing analyzers to sample test atmospheres containing known pollutant concentrations.

Performance Audits are used to provide an independent assessment on the measurement operations of each instrument by comparing performance samples or devices of known concentrations or values to the values measured by the instrument.

Table 6-3. Scheduled Field Activities

Field Operations	Every Visit	*Bi-Weekly	Quarterly	Semi-Annually	Annually
Change inlet filter	X				
Record all pertinent observations and information in the site logbook.	X				
Record all zero, precision & span check results.		X			
Perform & record analyzer calibrations.				X	
Perform & record meteorological calibrations.				X	
Audit analyzers (independent)			X		
Audit Met systems (independent)				X	
Certify SO_2 tanks (18 months)				X	X
Certify SO_2 calibration systems				X	
Certify Met calibration systems					X

* Automated zero, span and precision checks are conducted daily. A manual zero, span and precision check, is performed monthly. A total of 9 precision checks (QC) and the Audit results (QA) are submitted to OEPA quarterly thru Mark Runyon with American Electric Power.