

AUTOMATED WEB-BASED INFRARED MONITORING SYSTEM FOR MILLING AND QUARANTINE FUMIGATIONS

PART III

Dennis Glennon Ph.D., Chief Technical Officer, Spectros Instruments, Inc.

ABSTRACT

This paper updates and describes our infrared monitoring system for the collection of fumigation data at remote locations. The Spectros Instruments Remote Monitoring Module collects and display fumigation data locally (pc,print,plot) while real-time reports and alerts are generated for display on the internet via any secure web browser. Monitor diagnosis and validation is possible with the Report Monitor Control and Reporting System. Additional features allow a fumigator to be connected via text-message to cell phone/PDA. Real-time fumigation gas levels are displayed. Interface of the Spectros Instruments Remote Monitoring Module to fumigant recovery system is discussed.

Data will be presented with special attention is paid to instrumentation stability to changes in temperature; barometric pressure, relative humidity, interference gases and other challenges.