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NLC Control
318609
LIC 21-03039-01

Service Training Schedule Michigan DOT January 25-28, 2010

- Monday January 25th, 2010

Morning:

- Radiation Safety (confirm radiation safety training)
- Received TLD badges for radiation monitoring
- Tour of Service and Calibration facilities

Afternoon:

- Working in Service Cell – Focus on 3440 Series Gauges
 - Including but not limited to:
 - Top shell cleaning and removal
 - Removal, cleaning, and weld checking of the Caesium-137 source
 - Removing the scaler and inspecting the gauge seals
 - Battery pack inspection and removal
 - Lower electronics removal
 - Cleaning and greasing of the bearing cavity
 - Proper reinstallation of all previously noted removed components
 - Inspection and realignment of the inner and outer GM tubes as well as the moisture tube
 - Resetting the memory and all functions impacted by doing so

- Tuesday January 26th, 2010

Morning:

- Continued preventative maintenance and recondition training that began on January 25th, 2010.

Afternoon:

- Trained on proper testing of electronics with a factory service technician.
 - Including but not limited to:

- Removal of antiquated EPROM chips
 - Adding EPROM sockets to the gauge motherboards
 - Installing EPROM chips that possess the current software versions
 - Identifying and remedying common electronics issues on 3440 series boards
- Wednesday January 27th, 2010

Morning:

- Continued electronics testing and diagnosis that began on January 26th, 2010

Afternoon:

- Repair troubleshooting
 - Common field problems including but not limited to:
 - Issues regarding operating standards
 - Replacing lost gauge constants and why it occurs
 - Using the gauge in manual mode if automatic depth strip malfunctions
- Calibration training hands on started

- Thursday January 28th, 2010

Morning:

- Continued calibration training hands on
 - Warmed up gauges before calibration
 - Input gauge information into the computer
 - Connected and linked gauge and computer
 - Followed factory calibration procedures
 - Moving source to the depths required on screen to obtain readings on known block densities
 - Downloaded new calibration constants to the gauge

Lunch: Provided by Troxler Electronic Laboratories

Afternoon

- Continued calibration training
- Miscellaneous training
- Received factory service and repair manuals and reviewed them with Troxler personnel

