

Steam Locomotive Asbestos Abatement

Application: Outdoor Public Display of a Deteriorating Steam Locomotive

Project: Abatement Project Design for Winter Weather Abatement.

- Goals:**
1. Remove friable asbestos-containing materials from the boiler and public accessible areas
 2. Remove contamination from the track and soil beneath the locomotive
 3. Maintain containment above freezing and protect human health and the environment
 4. Dismantle and save original components for re-assembly
 5. Be mindful of a small town museum budget and the EPA involvement

ESI developed an abatement project design that achieved all of the goals and was within budget for this classic locomotive battling time and the elements. The EPA mandated response schedule for the outdoor winter project in a northern environment posed several challenges almost as unique as the abatement project itself. Maintaining ambient conditions was as important as designing the temporary structure for wind and snow load considerations. Careful dismantlement of the steel boiler skin and other aging locomotive components was essential for the restoration of this relic. EPA review, release of the funding, and a slow approval process to proceed as designed added additional economy by delaying the project until warmer weather.