

Statistical Inventory Reconciliation (For Tanks and Piping)

Description of Release Detection:

Statistical Inventory Reconciliation (SIR) is a method that uses a third party certified computer software program to conduct a statistical analysis of inventory, delivery, and dispensing data. Data must be collected daily and analyzed every month. The result of the analysis may be “pass,” “inconclusive,” or “fail.”

Operating and Maintaining SIR:

- Collect daily inventory, delivery, and sales data.
- Supply daily inventory data to the SIR provider at least once every 30 days.
- Data can be gathered by “sticking” the tank manually or by using inventory data from an automatic tank gauge.
- If a “stick” is used to gather data for the SIR vendor, make sure the stick can measure to one eighth of an inch and can measure the level of product over the full range of the tank’s height. If plastic button is missing, the gauging stick should be replaced.
- If you receive an “inconclusive” result, work with the SIR provider to correct the problem. Document the results of the investigation.
- Release detection equipment used to gather data, including but not limited to ATG and tank stick must be tested for proper operation at least annually.
- Make sure employees who run, monitor, or maintain the SIR system know exactly what they have to do and to whom to report problems.
- Report all “inconclusives” or “fails” to the UST Compliance Section.

Record Keeping:

- Keep results of SIR reports for at least one year. The tank owner is required to have the completed SIR report back from the vendor by the end of the 30 day monitoring period.
- The tank owner is required to have a SIR report for each tank for twelve months at all times.
- Keep records of investigations conducted as a result of any monthly monitoring conclusions of “inconclusive” or “fail” for at least a year.
- Any non passing result indicates a suspected release and must be reported, investigated and abated.

If the monthly SIR result is anything other than a pass or indicates a release has occurred, call the UST Management Division within 24 hours at (803) 898-0589.

