A corrective action program is an essential management tool for quality assurance/ quality control activities and for addressing errors or defects at any point in the generation of data

Corrective actions can either be taken on-the-spot to correct or repair non-conforming data or equipment or be a long-term effort to eliminate causes of non-conformance. A corrective action program should consist of the following steps:

- a. Define the problem
- b. Assign responsibility for investigating the problem
- c. Assign and accept responsibility for implementing the corrective action
- d. Establish the effectiveness of the corrective action and implement the correction
- e. Verify that the corrective action has eliminated the problem

For more information on a corrective action program for out-of-specification results, see:

- <u>Out-of-Specification Results</u> Chapter 11 from A laboratory quality handbook of best practices by Donald Singer
- <u>The Laboratory Quality Assurance System Manual</u> by Thomas Ratliff (pps 139 146)
- Office of the Texas State Chemist SOPs on:
 - <u>Control of Non-conforming Work</u>
 - o <u>Corrective Action Procedure</u>

Assignment Directions

Consider the situation described below:

After a series of tests have been run using the Salt in Feed method (see <u>SOP on Salt in</u> <u>Feeds</u>), an analyst in your lab finds that the most recent test results for the control samples are out of specification.

In a brief essay, answer the following questions (See class readings and lectures in Unit II):

- 1. How would you investigate the problem with the control samples? (2 pts)
- 2. Identify at least 3 factors that could have caused the problem (3 pts)
- 3. Describe the corrective actions you would implement to address the problem in the future. (5 pts)