Process Control Flow Chart for Denitrification in Anoxic Tank

Clarifier Effluent Ammonia and Nitrate Test

- Ammonia Low Nitrates Low
  - System in Compliance

- Ammonia Low Nitrates High
  - Check Anoxic Tank Nitrates
    - Nitrate Low
      - Increase Nitrate Recycle Pump Rate
    - Nitrate High
      - Increase Soluble Carbon Feed Or Reduce Nitrate Recycle Pump Rate

- Ammonia High Nitrates Low
  - Incomplete Nitrification
    - Check and Correct Nitrification Inhibition:
      1. Low DO
      2. Low Alkalinity
      3. Low Temp
      4. Low MLSS
      5. Low Time