Student Exercise 2.2
Day 2 – Batch Loading Data in AQS (Clean Run)

Goal: To use the batch load process in AQS to set up a site and monitor and load a raw data file with exceptional event data.

Part 1 Loading a File

Step 1. Start AQS & Logon using your training user id and password
Step 2. Select your screening Group
Step 3. From the menu, select "Batch"
Step 4. Click on the CDX button
Step 5. Select the file "Ex2_2_Txx" where "Txx" is your training id
Step 6. Close CDX and Return to the Batch screen
Step 7. Click the "Refresh CDX" button until your file appears on the list.
Step 8. Click on "Load File" and wait for the status of the submitted job to read "WARNING".
Step 9. Open another browser window and connect to your email account. Find the emails about your batch job. Review the email to look at the reason:

```
# Warning:  Urbanized Area Code replaced by geospatial lookup
```

When you get a "Warning" status for a batch job, the only place to find out why is in the email message.
Step 10. Click the "Edit/Load Summary" button on the bottom of the screen.

> ***PLEASE NOTE***
> If the status of your job says "ERROR", please advise the instructor or an assistant immediately.

Questions:

1. Using the "Edit/Load Summary" report, how many records were in the file that you loaded? How many were "Raw Data" types of records?
2. If you were to run the "Edit Error Detail" report, how many records would you guess would appear on this report based on the results of the "Edit/Load Summary" report?

Part 2 Perusing a Batch Transaction Input File

Step 1. Using Windows Explorer, locate the "Ex2_2_Txx" file.
Step 2. Open the file.
Step 3. Using the "*Data Input Formats for the Re-engineered Air Quality Subsystem*" document, see how the layouts of the transactions apply to the entries in the text file.

Questions:

1. What information is contained in the 10th field of one of the "RD" transactions? What is the value?
2. What is the monitor ID we are entering data for in this file?
3. What information is contained in the 17th field of some of the "RD" transactions? What is the value and what does it signify?

Part 3 Finding and Interpreting Warning Messages

A Data Completeness Warning

1. Submit the file Site.txt to CDX
2. Load the file. The status of file should be "Warning."
3. Open another browser window and connect to your email account. Find the email about your batch job. Review the email to look at the reason:

```
- 20270 To enter a new Site record, you must enter at least one Monitor record
```

4. When you get a "Warning" status for a batch job, the only place to find out why is in the email message.

B Primary Monitor Periods Warning

1. Submit the file PM2.5.txt to CDX
2. Load the file. The status should be "Warning."
3. Review the email and look at the reason:

```
-20332 Each day in a sample period for a combinable monitor must be assigned to
a primary monitor period.
```

4. Go to Maintain → Site
5. Click on "Enter Query" icon and query the site from your PM 2.5 file

Question: What is the status of the site?
"P" = production; "F" = failed field validation; not yet in production

6. Click on the Primary Monitor Periods Tab
7. Select "88101" from the Parameter list
8. Select "POC 1"
9. Enter 19990101 for the begin Date and "Save" the record.
10. Click the Basic Site Data Tab; and query in your PM 2.5 site again. Notice that it is now production status.

Note: A pollutant that can have collocated monitors must have one of its monitors designated as "primary" before the site record can go to "production" status in AQS.

RECAP

In this exercise, you saw that the site and monitor records go to "production" immediately.

A site must have at least one monitor associated with it before the site goes to "production" status.

Raw data is handled differently. After the "load" step, raw data will have a status of "R." Raw data must go through additional QA steps before going to status "P" or "production." We will continue with the "Stat/CR" and "Post" steps in the next two exercises.