



CO-OPS Engineering Bulletin 15-001

Engineering Change: Correct GOES Flag for Backup Battery Voltage

Systems Affected: All Xpert Stations with GOES Transmissions

Originating Team: Seattle Instrument Lab

MSCS Approval Date: 28 August 2015

Background:

CO-OPS utilizes the Geostationary Operational Environmental Satellite (GOES) system for data telemetry at the majority of NWLON, PORTS, and project stations. In order to fit the data into the allocated transmission windows it is necessary to compress the data. This is accomplished using single character flags to represent different values and attributes. In 2011 the designation for the backup battery was changed to L1 which required updating the backup battery flag from = (which represents a generic analog sensor) to < (which represents L). Many stations were updated to reflect this change but there are still a number of stations that are transmitting using the incorrect backup battery flag (some that were never updated and others that were updated but then inadvertently changed back to the incorrect flag). This results in the backup battery data not being displayed on the DiagTool so needs to be updated at all stations.

Action Required:

During the next regularly scheduled site visit check the GOES Format File at all stations to ensure that the backup battery flag is set to "<" as opposed to "=" and update as necessary.

To do this, log into the primary DCP, copy off the NOSGoesFormat.txt file to your local machine, and review the backup battery line in a text editor. The line should read:

```
x,BBAT,L1,<,BBAT,1,3,SV (where x is the line number)
```

If the backup battery flag is correct no action is needed. If the backup battery flag is incorrect, update it to be as shown above, save the file, and copy it back onto the primary DCP Flash Disk. If any questions arise, please contact CIL@noaa.gov or SIL@noaa.gov for guidance.

Estimated Time To Complete: 10 minutes per station where required

References:

3.2.3.7(G) NGWLMS GOES Formatting for Hourly Transmissions, January 2003

3.2.3.9(I) EB 11-002 GOES Battery Flag Standardization