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Engineering Change: Verify and Archive Paros Sensor Configuration During Annual Inspection

System: All Water Level and Met Stations with Paros Sensors Installed

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**Background Information:**

There have been several instances of Paros sensor configuration file corruption over the past few years. The undesired changes in configuration parameters have resulted in improperly scaled data being ingested into the database. While the data have thus far all been recoverable, some of these instances have gone unnoticed for extended periods of time. For this reason, and to allow quality control checks to ensure that all sensors have been correctly configured it is desirable to periodically check the Paros configuration and to maintain an archive copy of the configuration file in the station folder on the server.

**Directive:**

Download the Paros configuration file from all operational Paros sensors during the Annual Inspection and confirm that the user coefficient of 0.6894757 is correct using Standard Operating Procedure 6.5.1.1.11 which is attached. If incorrect configuration parameters are encountered contact the Chesapeake or Seattle Instrument Lab for further guidance. Submit the Paros configuration file to the Operational Engineering Team along with the station package.

**Note:** Connecting to a Paros sensor requires a custom cable to allow connection from a standard DB-9 serial port to the DB-15 port on the Paros unit. This cable must also provide +12VDC from an external power source to the Paros to enable communication. Please contact the Chesapeake or Seattle Instrument Lab if you require a Paros cable or a schematic of how to fabricate one.

If you have any questions or concerns regarding this Engineering Bulletin please contact [MSCS@noaa.gov](mailto:MSCS@noaa.gov).