

## Vaisala Annual Maintenance Check List

### **Before you go:**

- Review Field Check List and Tool List
  
- Review WFMI Header Information and Last Data
  - Look for transmitter and sensor problems

### **At station:**

- Do a walk around station and check for:
  - Damage to sensors, cables, and tower
  - Tower for orientation, level and mast plumb
  - GOES antenna azimuth and elevation
  
- Connect laptop to DCP, go to:
  - (Online) Data; record last transmitted data.
  - (Online) FAV; view all information, verify and record instant & average start times.
  - (Online) View; record program name and firmware.
  - (Online) Satellite; verify and record all satellite information.
  - (Online) DCP ID; verify and record tone code (DCP with Radio).
  
- Interrogate station (if radio present):
  - If it was not successful, check radio frequency, volume, and squelch
  
- Replace the required sensors:
  - RH/AT, FM/FT; minimum once per year.
  - WD, WS; minimum every 2 years.
  - SR, TB, FT, DCP battery; minimum every 3 years.
  - Wrap RH/AT, FM/FT, and GOES antenna cable with environmental tape.
  - Record new sensor serial numbers
  
- Test and record:
  - Solar Panel voltage and current.
  - Regulator voltage and current.
  - Battery voltage and load test battery.
  
- Restart laptop:
  - (Online) FAV; Check Solar Radiation Constant, Precip, Instant/AVG start times.
  - (Online) Scan; WD and check quadrants at 90, 180, 270, and 360 degrees.
  - (Online) Scan; WS and check slow and fast wind speed.
  - (Online) Scan; all sensors and record data.
  - (Online) Clock; confirm date and GMT time (use a handheld GPS).
  - (Online) Mode; put DCP in Run Mode.
  
- Test Tipping Bucket:
  - (Online) FAV; record Precip test results and reset to desired amount.
  
- Replace fuel bed
  
- Contact RAWS Help Desk (208) 387-5475 - confirm transmit time, frequency, power and data are ok.