Annual Maintenance Checklist (V2.1)

Before you go:	
	Review WFMI observations and messages for any possible issues. Record station information:
-	Station Name:
-	NESDIS ID:
-	Transmit Time:
-	Channel: Antenna Elevation and Azimuth:
-	Antenna Elevation and Azimuth:
-	Download newest Application Software from ftsinc.com to a thumb drive. (F6 datalogger only)
At	station:
	Do a walk around station and check for:
-	Damage to sensors, cables, and tower.
	Check tower for orientation, level and mast plumb.
	Verify GOES antenna elevation and azimuth.
	Interface datalogger (using laptop or touchscreen depending on datalogger model):
-	Insert thumb drive and start a visit report. (F6 datalogger only)
	Record firmware and update if needed. Application Software: Operating System:
_	Record program name:
_	Record program name:
	(1/282 18 12 1111 11110)
П	Get current weather conditions of all sensors and record values:
	Relative Humidity: Air Temp: Fuel Moisture: Fuel Temp: (replace yearly)
	Wind Speed:Wind Direction:(replace every 2 years)
_	Solar Radiation:Tipping Bucket:(replace every 2 years)
	Battery Voltage: (replace every 7 years for permanent stations, 3 years for portable stations)
-	Record asset numbers of new sensors to be installed on the station. (RAWS Depot contracts only)
	o RH/AT:FM/FT:WS:WD:SR:TB:Other:
-	Replace the required sensors and secure all cabling neatly to the tower using zip ties.
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	Sensor Validation: (Compare previously recorded RH/AT and FM/FT values with new values.)
-	Verify Tipping Bucket by performing ten tip test. Set rain back to previous value if station has an automatic
	rain reset prg. Set to 0 for manual rain reset prg. (verify transmit time so tip test values are not transmitted)
-	Verify Solar Radiation by covering sensor and scanning. Should read close to a 0 value.
-	Scan WD and check quadrants at 0 degrees (N), 90 degrees (E), 180 degrees (S), and 270 degrees (W).
-	Scan WS and spin prop or cups at a slow and fast wind speed. Verify change in value.
-	Verify all SDI sensors have been mapped through SDI icon. (F6 Datalogger only)
-	Interrogate station radio. (only for stations equipped with radio voice transmitters)
	o If radio transmission is not successful, check radio frequency, volume, squelch, and DTMF tones.
	Before leaving the station:
-	Yagi Style GOES antenna with pigtail cable protruding from the mounting bracket requires silicone tape.
_	Clean solar panel, replace fuel bed, and clean up all garbage.
_	End the visit report and remove thumb drive. (F6 dataloggers only)
_	Raise the mast and secure the site. (lock the cabinet and close the gate used to access station)
_	Contact the RAWS Help Desk (208-387-5475) to verify a successful GOES transmission.

Back at the office:

☐ Complete Post Trip Update in WFMI: Check boxes of assets installed on station, input last annual maintenance date, TB zero date, program name, operating system version, application software version, and perform narrative entry.