

## Checklist for AVERT Web Edition updates

- a. Identify any needed algorithm and interface changes (if any).
- b. Code and test algorithm and interface changes (if any).
- c. Import updated data (RDFs, line loss factors, other libraries with multipliers, etc.).
- d. Update onscreen text (initial instructions, date ranges, help text/tooltips).
- e. Check code base for any other needed modernization/updates/cleanup/patches.
- f. Testing / QC
  - g. Functional/accuracy testing
    - h. Run at least one test case in each of the 14 AVERT regions to make sure modeling in each region works.
    - i. For each of these runs, keep track of computation time. Compare computation time between the new and old (public) AVERT Web Edition versions.
    - j. For at least one of the runs, test entering something in every usable input field to push the limits there.
    - k. For at least one of the runs, confirm that all output formats are working correctly, including the two CSV exports.
    - l. Make sure the state-specific queries still work. Test a variety of states, including a state that spans multiple AVERT regions and a state that is entirely within one region.
  - m. Check validation rules and associated error messages.
  - n. Check interaction with COBRA.
  - o. Copyedit and formatting check.
  - p. Cross-browser / cross-device testing.
  - q. Trusted Tester accessibility check.
- r. Submit for NCC code security scan (code scan, API scan).
- s. Address any findings from NCC code scan.
- t. Work with NCC to publish the production version.