



## Revisions for VISRAD 18.4.0

- NIF: Diagnostic Port 143-176 now lists it as holding the NIF Survey Spectrometer.
- Checks are now made on the laser beam spatial profile model of the short pulse beams of OMEGA ("Beam\_EP") and OMEGA-EP ("Backlighter" and "Sidelighter"). The use of DPP's for these beams is not supported at LLE.
- Updated algorithms and libraries for software activation. The updates fix potential problems that could result in broken activation after performing OS upgrades.
- Use of *VISRAD* on Linux KDE 5 desktop environments is discouraged at the present time, as very slow graphics performance can occur.
- Bug fixes:
  - The value of the *second* wall thickness parameter is no longer being checked for non-Hohlraum/Halfraum objects.
  - Fixed problem that occurs when reading workspaces that have one or more *Target Components* that have a name contain "=".
  - Fixed end-of-line error that occurred on some Linux platforms when writing *Capture/Clearance* parameters to the workspace file.
  - Checks have been added that make sure problems arising from zero surface area elements does not cause problems with the radiosity solver.
  - Checks have been added for *Rugby Hohlraum* objects to inform users when  $R\text{-Top/Botm} = R\text{-LEH}$  (previously, *VISRAD* checked for  $R\text{-Top/Botm} < R\text{-LEH}$ , instead of  $R\text{-Top/Botm} \leq R\text{-LEH}$ ).