Modeling with Vector Data Step-by-Step
Reminder of Useful Functions (Entry Mode)

Remember these **Entry** mode functions to make 2D-to-3D CAD/PDF conversions and break line entries faster and easier (see previous page for **Edit** mode functions) …

Control visibility of layers/data with **F2** (display/hide point plus marks, page 123), **Alt-V** (hide/redisplay current background layers, page 177), **Insert** (reload background image, pages 68-69), **J** or **T** (display/hide background image, page 102).

Segment Snap (**F6** once, page 102) is used to cross a previously entered 3D *Data Line* with a new 3D *Data Line* when no data point exists at the desired crossing location (no snap reference point) by positioning the *Crosshair*  pointer over the crossing location and pressing F6 (a new point with interpolated elevation is inserted on the previously entered 3D *Data Line* segment at the F6 location and the new 3D *Data Line* is immediately snapped to the new F6 interpolated point). F6 can also be used to snap a new 3D *Data Line* to a 2D *Annotation* line when no data point exists at the desired snap location on the annotation line segment (pages 113, 121).

Data Point Snap (**F8** once or **Left** click if *Mouse Snap* is enabled) snaps to the data point nearest the *Crosshair*  pointer (if within the snap radius, page 114). If no data point is within the snap radius, F8 snaps to closest point on a line segment passing through the snap radius. If snapping to a 3D *Data Line* (pages 102-103), the elevation will match that of the snapped data point; if snapping to a 2D *Annotation* line (pages 113-115, 120-121), user can type a desired elevation (or press F9 to copy elevation from a CAD text object, see F9 below) before snapping, otherwise the program will interpolate an elevation at the snap location.

Line Snap (**F8** twice to begin, **F8** once to end) matches the alignment of all points on the snapped line. If the snapped line is a 3D *Data Line*, all point elevations are also matched. If the snapped line is a 2D *Annotation* line (page 120), the new elevations are interpolated. Line Snap can also be used to enter Report Regions, Sectional Areas and Stripping Areas (see *Day 1 Seminar Handbook*). *Mouse Snap* (page 24) can be substituted for F8 with this function.

Area Snap (**F8** twice to begin, **Right** click to end) is just a variation of F8 *Line Snap* and it is typically used for snapping the entry of *Stripping Areas*, *Report Regions*, *Sectional Areas* and *Balance Regions* to closed objects (numerous examples are documented in the *Day 1* and *Day 3 Seminar Handbooks*). *Mouse Snap* (page 24) can be substituted for F8 with this function.

Elevation Snap (**F9** once) eliminates manual typing of an elevation by copying the elevation from a 3D *Data Line* point (or from a CAD text object) and pasting it to the *Elevation* field at the bottom of the **Entry** mode screen. The F9 copied elevation is then assigned to the next entered point (pages 102, 113-115,120-121).

Keyboard Shortcut References

- Video at ***www.agtek.com/video.html?id=426*** covers two dozen useful shortcut keys in **Edit** mode.
- Video at ***www.agtek.com/video.html?id=224*** covers function keys (**F1** through **F12**) in all program modes.
- Video at ***www.agtek.com/video.html?id=439*** covers various Snap options in **Entry** mode.
- Video at ***www.agtek.com/video.html?id=242*** covers **F8** Snap functions in both **Edit** and **Entry** modes.
- Video at ***www.agtek.com/video.html?id=223*** covers menu shortcut keys in **Edit** mode.
- Video at ***https://youtu.be/v4p8x5yGJhw*** covers 3D view control keys that work in **Edit**, **Entry** and **3D View** modes.
- ***Appendix B*** of this *Day 2 Seminar Handbook* provides an organized reference for all keyboard shortcuts.