



Changes to the CUTFILL Driver

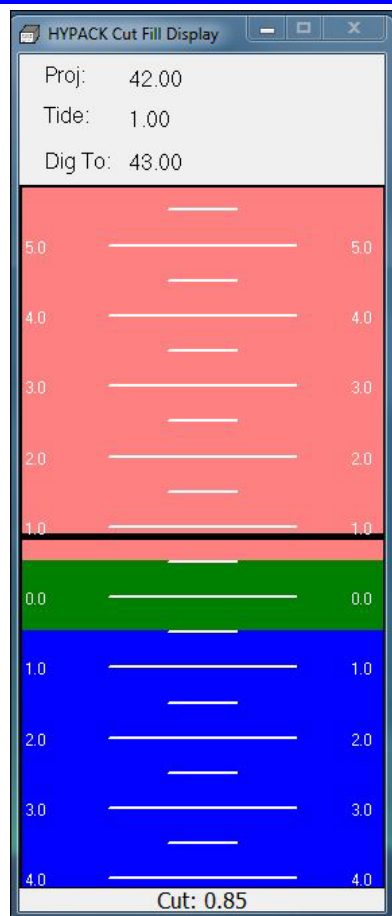
By Jerry Knisley

I made changes to the CUTFILL driver to support a recent crane conversion to DREDGEPACK®. The crane does not have a depth counter but they do dredge to a channel and were used to seeing the tide added to the required channel depth on the screen as a quick check. The area in which they are dredging has drastic tide changes in a single day. I modified the CUT FILL driver to provide a display similar to the one to which they were accustomed.

The CUTFILL driver is assigned to the digging tool mobile (in this case the bucket mobile) to provide an instant display of how much more you need to dredge or cap. In this case, the dredge is cutting but without the depth capacity they really wanted to see the template depth from the water.

With a project depth of 42 feet and a tide of 1 foot, the dredge needs to dig to 43 feet from the surface. In the driver, the final elevation is 43 feet from water and this is where the zero point on the cut fill bar is located. I have entered a tolerance of 0.5 feet above the template and 0.5 feet below the template. This creates the green band. As the digging tool moves up and down in the water column, the black line representing the position of the tool does not change. The Red, Green and Blue bar moves up and down to show how far the tool is from the tide corrected channel depth.

Originally, this driver was to be used on an excavator but also designed to be used on a bull dozer running along a beach so that the operator could see how much he had to fill in before he reached grade. The exact amount of material that must either be cut or filled in to make this location match the grade is shown at the bottom of the display.



These other two pictures are of the same device window, but resized so that the moving bar is not visible. In the left picture, the window is as it should be when used with a crane that has no depth feature. It will continuously update the DigTo depth allowing a quick visual reference of the depth below the water to which they must dig. The image on the right is the same display but showing the Cut / Fill value

without the bar. It allows users that have the depth option to see what they have to cut or fill without taking up a lot of screen space.

If you have any questions or would like a copy of this driver please contact me at Help@HYPACK.Com