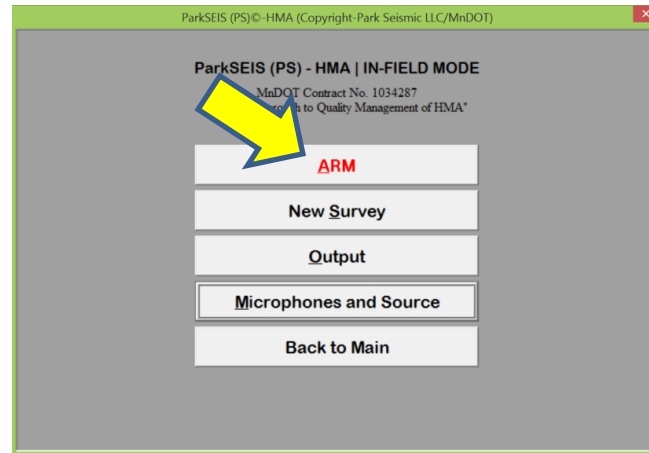
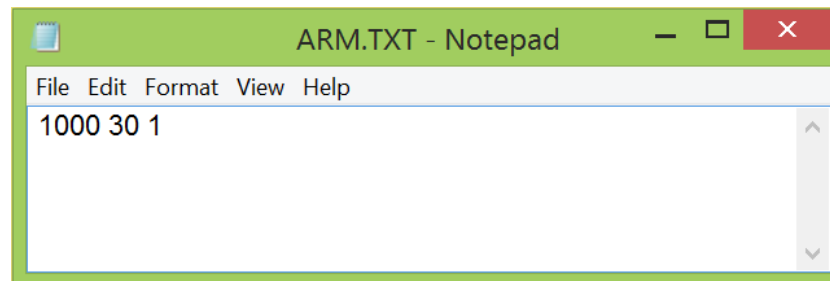


“ARM.TXT”



Now, clicking the “ARM” button will write the “ARM.TXT” file on the PXI folder **where TDMS files are saved**. **Clicking the button again (i.e., “DISARM”)** will delete the file from the folder. So, the existence (or not) of this file can be used for PXI system to be “armed” (or “disarmed”) for data collection. The following notepad shows **the content of the file, which can also be used to set three (3) PXI parameters explained below**. More parameters can be added later.



The first parameter (1000) is the number of samples (ns). The second parameter (30) is the pre-triggering time in % of ns. The last number (1) is the triggering level (1-4). These number are separated by a space. The next page shows how to set these parameters.

How to Set 3 Parameters

Click the **“New Survey”** button in the **“IN-FIELD”** window. Select the **“Data & Recording”** tab and then the **“Recording”** tab as shown on the right.

The aforementioned three (3) parameters can be set there and the updated values will be saved in the application folder to appear as default values for the next run.

In PXI, please set $ns = 1000$, sampling interval (dt) = 0.005 ms, and pre-triggering time = 1.5 ms or longer. A long-enough pre-triggering time (e.g., 1.5 ms) is very important for the automatic algorithm to properly mute air waves and enhance Lamb waves as much as possible. $dt=0.005$ ms (i.e., 200 kHz sampling rate) is enough and then $ns=1000$ is also enough.

Also, one TDMS file should contain enough number of measurements; for example, 20 or more. This is important for more accurate evaluation of velocity (V_s) and thickness (H).

