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March 14, 2007

To: Tony Browning, DAEC, fax: 319-851-7364
From: Karl Feintuch, USNRC fax: 301-415-1222

This explanation accompanies a sketch faxed from Karl Feintuch (USNRC PM) to Tony Browning (DAEC) to obtain crack data as part on an independent assessment of UT data (TAC MD4630)

The "picture" of a "flaw profile" shows the length and depth of the flaw around the circumference of the pipe.

There are many ways to show a flaw profile. The one sketched is one way (although what is desired is a scale showing the length and depth of the flaw). Other ways to show a flaw profile would be, starting at one end of the flaw, to show the depth of a cross-section and then incrementally go along the length of the flaw providing the thru-wall depth at each location. For example, for slices taken at 0.02" increments, the crack could be characterized as:

0.00" 0.0% TW
0.02" 0.5% TW
0.04" 0.6% TW
0.06" 0.6% TW
and so on until the end of the flaw.

We recognize that the crack might be irregular relative to the direction ~~on~~ of the slices. Please advise us if your measurements make it impractical to create the requested profile or if you have an alternate way of characterizing the profile of the crack..

x KF 3/14/07 (after faxing)

Karl Feintuch
Project Manager

To: Tony Browning, DAEC
From: Karl Feintuch, USNRC