Q. Please provide details as to the scope and extent of patching/repairing work undertaken on the penstock in the last three (3) years and please indicate how areas of the penstock that were patched/repaired with steel plate are presently functioning. For example, what is the situation presently in the areas depicted in photos No.s 14 and 15 of the Acres photographs?

In the last three years, there has been a significant amount of effort put into the patching/repairing of the Rattling Brook penstock. Please refer to the response to CA-30.0 NP for details regarding the scope, extent, and approximate cost of the patching/repair work undertaken on the Rattling Brook penstock in the last three years.

The portions of the penstock that have been patched with steel plates, including the areas depicted in the photographs numbered 14 and 15 in the Acres report, continue to function well. Generally speaking, the areas covered by steel plates continue to be watertight. However, it is not uncommon for leaks, including significant leaks, to develop in areas immediately adjacent to areas covered by steel patches.

For example, the area depicted in Figure 1 shows a hole that caused a major leak in the penstock in April 2006. The hole developed in an area of the penstock that was covered by numerous steel plates. The hole developed immediately adjacent to one such steel plate.

Figure 1 – Major Leak Downstream of TCH Bridge