

1 **Q. Re: Tab 1.4 - Pitmans Pond Hydro Plant sic Refurbishment – Overhead Crane**

2
3 **What is the difficulty with one (1) person operating the overhead crane? How often**
4 **is one (1) person required to do so?**

5
6 A. The existing crane is comprised of two 5 ton hoists. The vertical lift of each 5 ton hoist,
7 horizontal travel of each hoist and horizontal travel of the bridge are all operated by
8 chain. The mechanical gearing of chain mechanisms require multiple pulls of each
9 different chain to move the hoist up or down or across and to travel the bridge across the
10 plant.¹ The difficulty associated with having one person operate this type of crane relates
11 to the use of multiple chains simultaneously to move the hoisted object smoothly through
12 three dimensions. Figure 1 shows the overhead crane and the chain mechanisms.

13
14 During normal plant operations the crane is utilized infrequently. However, during
15 maintenance, repair and inspection work the crane is frequently used. During the hydro
16 plant refurbishment project the crane will be used continuously and will ensure the work
17 is completed safely and efficiently.

18
19 The project schedule will have the crane replaced early in the 2nd quarter of 2013 before
20 the other onsite work commences.



Figure 1

¹ In total there are 5 independent sets of chains associated with the operation of the overhead crane.