

**Brighton Sailing Club - beach winches, visit by Martin Slee electrician October 25<sup>th</sup> 2021**

1. Martin visited and discussed our winch situation with me Paul Tofts. He was informed, engaged and helpful. He has some seawater in his veins. Here I give his comments on the proposed designs for each winch.
2. East wall of office – existing equipment. Loose wires are a hazard; these can be tidied up, shortened, clipped. An extension lead could be fixed to the wall. No need for extra power sockets. A winch power supply could be plugged into an existing power socket.
3. East winch on beach. Cables coming out of the shingle are exposed, not in conduit, and indoor type. Cover does not cover them.
4. West winch proposed.
  - a. Integrate conduit and concrete base so that cables emerge upwards directly into winch.
  - b. Design cover to completely cover everything.
  - c. Power supply to be in hut on West wall at high level, with protection against impact, on a separate circuit from existing 3-phase box at North end of hut.
  - d. Isolating switch on West wall at convenient level.
  - e. Cables should be short, to control cost and also voltage drop. 24v operation preferred, to enable smaller cables and less voltage drop.
  - f. Cables under shingle to be in conduit and probably waterproof (able to stand continuous immersion in salt water). However Martin did say the grey ones we have on East side would be ok in practice. And drilling holes in then conduit would enable it to drain.
  - g. Power supply: Martin proposed it should be an ‘approved design’ from a reputable supplier. (PT: from Amazon a 1000 watt supply costs £70; from Farnell £314). PT: an ammeter wired in permanently would help in monitoring the operation of the winch.
5. Next steps:
  - a. I will ask Martin for a wiring estimate based on a best guess of what winch we will buy
  - b. We need to source the winch. This could be urgent, in case it has to be imported. There is a proposed visit to Pevensy to look at theirs. Otherwise something similar to what we have can be bought I think.

Paul Tofts October 25<sup>th</sup> 2021