

## **MSSA GUIDELINES FOR KING GENERATOR AND HW BLOWER FOR ERECTION OF CHANNEL 9 ARCH. VERSION A1**

### **Generator**

- Set up generator away from water or wet sand. Raise it above sand on the support board supplied.
- Do not operate with wet hands or start it with appliances connected. Check that there is some unleaded fuel in tank. Top up if required. Need to keep it quite full, especially for a long swim. Do not refuel it while it is running.
- Turn fuel breather on (It is on top of black fuel cap)
- Turn fuel on (Knob near starter cord handle)
- Turn control knob on lower side to "ON"
- Apply choke valve - just to get engine started.
- Pull starter cord until engine starts.
- If it seems to be flooded, open the choke valve and retry.
- Once running, connect power cords to HW air pump
- Note: The HW big blower requires the generator to be on max power when it starts up. Once it is running fully, the generator can also be used to operate smaller blowers for inflating buoys.
- After arch has been erected and air pump is just keeping it erect, turn generator switch (near power points) back to economy mode. This reduces fuel usage and noise levels.
- Stopping generator is the reverse of the above. Watch for hot surfaces and turn fuel cap breather off for transportation
- Please check red fuel and ensure there is adequate fuel for the next event. If not, please refill or advise OWS Director.

### **Channel 9 Arch**

- Spread arch out where required on beach. Note: Must be well above expected highest tide level, as air pump must operate at all times while arch is erected and this runs off 240 volt supply from generator, which is a high risk if near any moisture.
- Fill up the hessian bags (kept inside arch) with about 10 kgs of sand and place them into the base of arch leg (thru zipped opening). This will hold "feet" to the ground. More wind = more sand required.
- Drive in 4 steel droppers securely at 4 points diagonally across the arch and about 3 metres from it. Tie ropes securely to posts. Place yellow plastic caps over ends of posts for safety. Also mark them with orange witches hats or other high visibility markers/items.,
- Connect the HW air pump to one end of the base of the arch. . Tie as tightly as you can, both around the neck and the back of the air pump. If this connection fails, the arch will collapse.
- Ensure that the other end will allow considerable air flow, otherwise arch could burst. Opening should be about 70 to 80 % of diameter, depending on wind. More wind = smaller opening.
- Connect power from generator and start air pump and inflation.
- Adjust stay ropes as required, taking into account prevailing wind.

- NOTE: Generator and air pump for arch have to run for the duration of the use of the arch. If pump becomes disconnected or stops, the arch will collapse. Strongly recommended that an operator remains close to the arch for the duration of the swim. Then if wind strengthens, ropes loosen or connection to air pump starts to leak, they can take appropriate corrective action

### **Shutdown**

- Just switch generator to "OFF" position and close off fuel control. Be aware of hot surfaces on the generator. Arch will deflate quite quickly.
- Remove hessian bags containing sand and empty them, then place inside foot of arch. Leave advertising panels and ropes attached to arch. After expelling all air, fold up arch carefully and place in white bag.
- Remove surface sand by brushing off, or hosing down - if this is possible.

### **Safety issues**

- Main risk is unleaded petrol required for the generator. Normal safeguards apply – fumes, flammability, etc.
- Output from generator is 240 volts, so need to be careful, especially around water. If sand is wet, suggest generator and air pump be raised slightly above ground
- If rain falls, suggest trying to cover generator, but leaving airflow for it.
- If wind becomes extremely strong, it may not be possible to keep the arch erect, as it relies on air pressure from the air pump. So it may have to be dismantled. Reducing the opening in the outlet tube will make arch stiffer. But be careful not to burst the arch. Extra pegs and ropes may be required.

End of document. TSC 30.10.17