Twickenham Alive Ice Rink
Strawberry Hill House
Glycol Removal in Temporary Ice Rinks

This method statement has been prepared specific to the ice rinks installed in the 2014-15 season; all aspects of Satellite Ice's general Health and Safety Policy and Operation Procedures for Temporary Installations will also be followed, as will the current season's general Company H&S Policy, Risk Assessments & Method Statement for the Set - Up and De-Rig of Ice Rinks.

The scope of this method statement is limited to the work carried out by Satellite Ice and includes the removal of Glycol from the Ice Rink system.

Summary of Works

Pre-Removal
During the install process Satellite Ice will have ensured that the chilling equipment sub-contractor had positioned 'in-line' 2" tap in points for the installation of the boiler system. This will ensure that when the system is installed there is no need for the disconnection of any pipe-work containing the Glycol. This system will draw from the buffer tank to fill.

Removal
The removal of the Glycol from the system is split into two parts. Firstly the rink will be drained by the insertion of a 4" kamloc 'T' piece between the flow and return pipes from the chilling plant. This will ensure the crew can concentrate on one area of the system. The 'T' piece will be connected to a small pump allowing the fluid in the rink to be sucked out and placed directly into the delivery Intermediate Bulk Container (IBC). Air will be allowed into the system by the release of the return valve taps located on the far end of each 1m section of rink. These will only be released when a trestle is placed under the rink pipe-work allowing the gravitational flow of glycol towards the pump. Each section of rink will be worked towards the pump using the rubber sections of the rink to bend the pipework and prevent the backflow of fluid. The system will continue to be drained in this manner until all fluid has been worked towards the pump as far as is reasonably practicable. Once drained, the individual 1m sections of rink will be split by releasing the red 'shurjoint' connectors. To ensure no spill of surplus fluid, yellow

storage caps will be placed directly on the 4” pipes containing any fluid that may still be inside the pipework.

The removal of glycol from the remainder of the system will continue to employ a similar method to that set out above using the 4” ‘T’ piece fitting, blanking plates, small pump and gravity. The target will be to drain each 4” and 2” pipe completely of fluid, removing them from the system when empty.

The final part of the draining system will be to remove any remaining fluid inside the pump, chillers and buffer tank. This will be achieved by use of the small pump and ‘T’ piece connector alongside the drain valves on the above plant equipment where available.

Post Removal
The glycol used on site will have been pumped into IBC’s which will be used for future storage and transport. These containers will be loaded on to Satellite Ice’s transport for removal from site and storage for next season.

Satellite Ice uses a food grade monopropylene glycol