During the Second World War, TSS became home to the 153 Station Hospital after it relocated from the field hospital in Papua New Guinea, arriving in Southport on 2 March, 1943.

The 153 Medical Unit served the 32nd Division fighting the rough New Guinea and Island campaigns.

Personnel from the unit exchanged places with 166 Station which had earlier taken over existing buildings of the school; a three story brick building and three older wooden buildings.

The area between Winchester Street and the tennis courts was occupied by a large circus tent, acquired by Phillip Wirth, of the Wirth Family Circus and used to show the latest films to convalescing American soldiers.

Signs of the Americans occupying the school were plentiful, including “Stogies” (discarded cigarette butts), camels and the new drink called “Coca Cola”.

During this time, what boys remained at the school (roughly 20) were relocated to the Junior School (Biddle House), finally returning to the main building in 1945 with an influx of new students once the war was over.