section view Figs. 7 and 7A. From the generator cable heads, single lead covered conductors run up to the oil switches on the main floor; from these switches, lead covered leads run up to the bus bars on the first gallery, passing through the current transformers on the back of the bus bar panels.

The tying cables which pass through the totality instruments current transformers connect the generator bus bars to the feeder bus bars on the same floor.

The feeder cables connect to the bus bar panels in the same way. There are on the main floor, twenty-eight electrically operated oil switches grouped together in threes for the generator and in fours for the feeders, (Fig. 8) placed back to back corresponding with the groups and sections as shown on the general diagram of connections.

The back heads in the basement and the bus bar panels on the first gallery, are similarly grouped. This method of grouping has been extended even to the switch-board panels. It will be seen later that there is one panel for each set of three generators on the main switch-board and on the operating table. There is also one panel for each set of four feeders on the bench boards. This method of division not only makes the whole symmetrical but obviously is also a great help to the attendant, far each panel represents a set of bus bars in the same way as the panels are placed.

Going back to the switches on the main floor, it will be seen on the plan view Fig. 8, that each block of three switches for the generators has two corner cells in each of which is placed a 500 watt potential transformer with its primary and secondary fuses. These transformers are for operating the instruments of that section and are connected to the 5000 volt bus bars.

On the first gallery, as shown on Fig. 9, are located the bus bar panels and also the electrically operated tying switches for the bus bars. These will be described in detail later on. On the second gallery is concentrated the control of the entire power house. On this floor (Fig. 9) is located the instrument panels and the operating table. Also on the right and left hand are the two feeder bench-boards and adjoining these are D. C. distributing switchboards for supplying power to all of the auxiliaries.

It will be seen from the plan view, that the switch-board panels are laid out so that the instruments on same are all an equal distance from the operating table.

On this gallery where the operator is stationed, there will be absolutely no high tension wiring or apparatus of any description.