Cable Discoloration and a Burn on the Terminal Block of the Standby Liquid Control System Tank Heater at Fukushima Daiichi NPS

<Outline of the Incident>
- At around 12:55 PM on April 5, a TEPCO employee inspecting No.1 heater of the Standby Liquid Control System Tank A found cable discoloration and a burn on the terminal block of No.2 heater.
- The operation of No.1 heater was started and the temperature control of the boric acid solution in the Standby Liquid Control System Tank A was restarted at 1:45 PM on the same day.
- No problem was found with No.1 heater operation.
- Though the temperature of boric acid solution has increased from approx. 15　(before temperature control was suspended) to approx. 18　as a result of performing an operation check of No.1 heater (energization check), there is a sufficient margin to the maximum allowed value of approx. 4　(boric acid solution temperature relative to the solubility of boric acid solution).
- At 3:30 PM on the same day, the fire department has judged that the incident was not a fire.

<Incident in Chronological Order>
12:55 PM　　A burn on the terminal block was found in the control panel of the SLC Tank Heater A2.
　　　　　　(No smoke was found when the burn was found.)

1:05 PM　　The incident was reported to the fire department.

1:45 PM　　After replacement of the Standby Liquid Control System Tank Heater A1, the operation of No.1 heater was started and the temperature control of the boric acid solution in the Standby Liquid Control System Tank A was restarted. The heater A1 was found to be functioning properly (the temperature of the SLC Tank: 17　).

3:30 PM　　The fire department has judged that the incident was not a fire.

東京電力

Photos of the Site (Photos Taken on April 5, 2013)
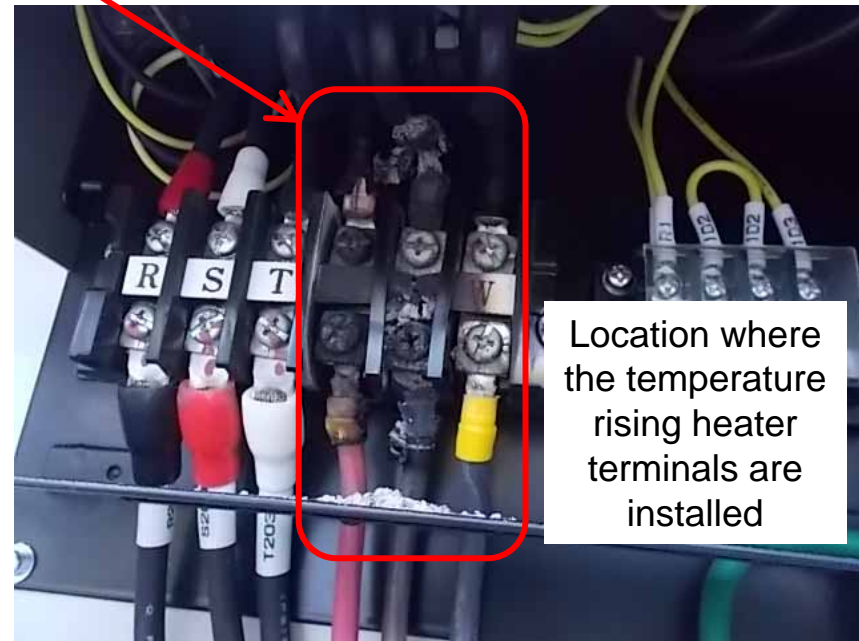

The control panel of the
Standby Liquid Control System Tank Heater A
(Upper part of the Standby Liquid Control System Tank A)

The control panel of heater A1

The control panel of heater A2

2 heaters are installed for each tank.

Appearance of the Standby Liquid Control System Tank
(From left, Standby Liquid Control System Tank A and B)

Location where the temperature rising heater terminals are installed

The terminals of the heater control panel A2
(After removing the terminal cover)