

# Small Animals (Mice) Found in the Low Voltage Transformer Box for Unit 2 Spent Fuel Pool Alternative Cooling System at Fukushima Daiichi Nuclear Power Station

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< Reference >  
April 22, 2013  
Tokyo Electric Power Company

## (1) Incident

At around 10:13 AM on April 22, 2013, during the patrol of the power facilities of Unit 2 spent fuel pool alternative cooling system performed by the Electrical Equipment Countermeasure Team of the Emergency Response Headquarters for Reliability Improvement at Fukushima Daiichi Nuclear Power Station, small animals (mice) were found dead in the low voltage transformer box.

## (2) Time line

9:30 AM

Patrol of the power facilities of Unit 2 spent fuel pool alternative cooling system was started (performed by the members of the Electrical Equipment Countermeasure Team of the Emergency Response Headquarters for Reliability Improvement at Fukushima Daiichi Nuclear Power Station).

10:12 AM

The patrol members arrived at the low voltage transformer box (outdoor) of Unit 2 spent fuel pool alternative cooling system.

10:13 AM

Small animals were found dead near the terminal on the primary side upon opening the door of the low voltage transformer box.

11:36 AM

Unit 2 spent fuel pool alternative cooling system (primary system) was suspended (by workers on shift).

11:40 AM

Unit 2 spent fuel pool alternative cooling system (secondary system) was suspended (by workers on shift).

1:40 PM

After isolation was confirmed, removal of the small animals, insulation resistance measurement and protection cover installation over the transformer box opening were performed.

2:35 PM

Work completed.

3:48 PM

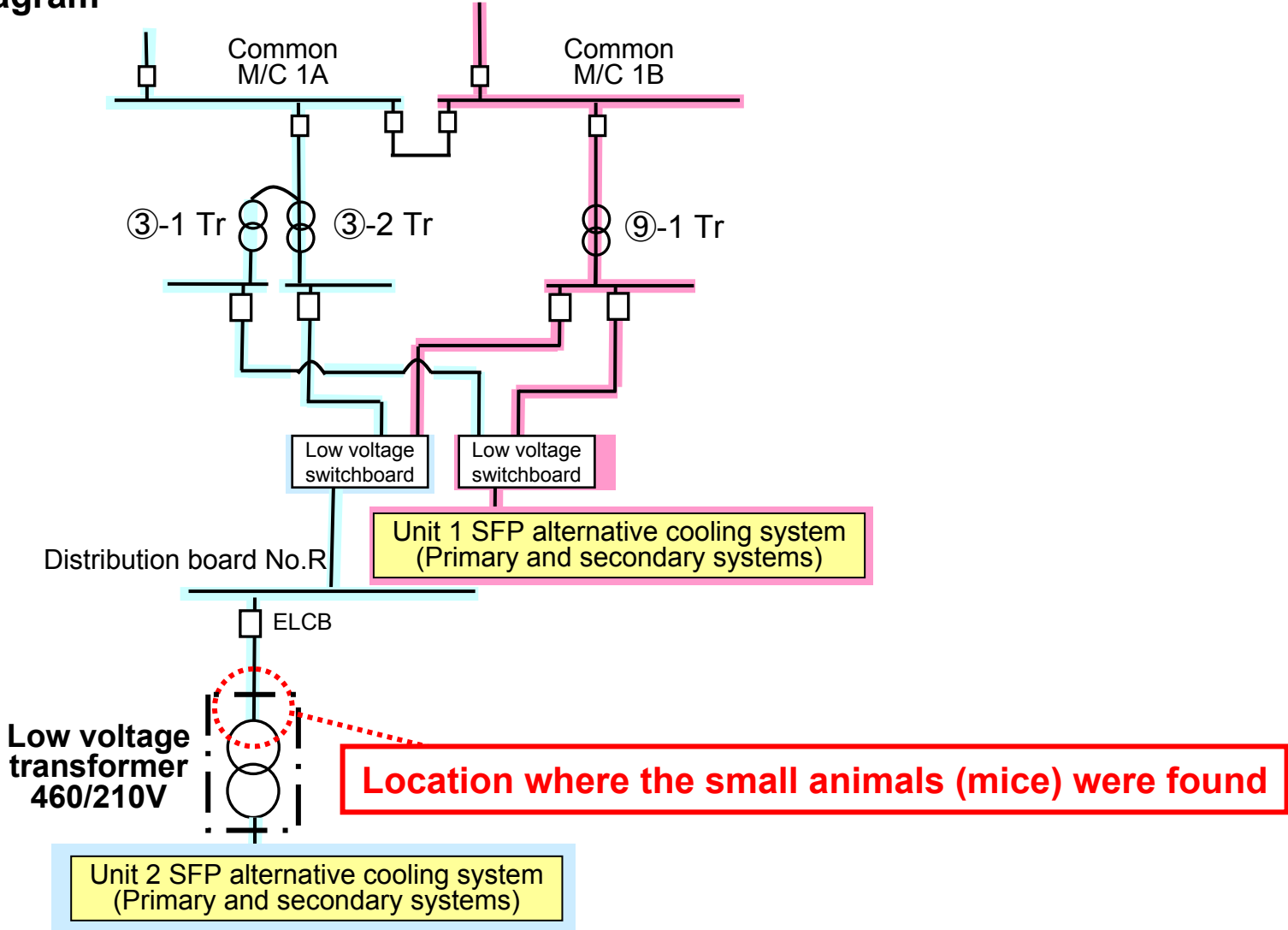
Unit 2 spent fuel pool alternative cooling system (primary and secondary systems) was restarted (by workers on shift).

## (3) Actions implemented

Unit 2 spent fuel pool alternative cooling system was suspended in order to remove the small animals from the low voltage transformer box, inspect the transformer soundness and install protection cover over the opening.

# Location Where the Dead Small Animals Were Found

## (4) Single-line diagram

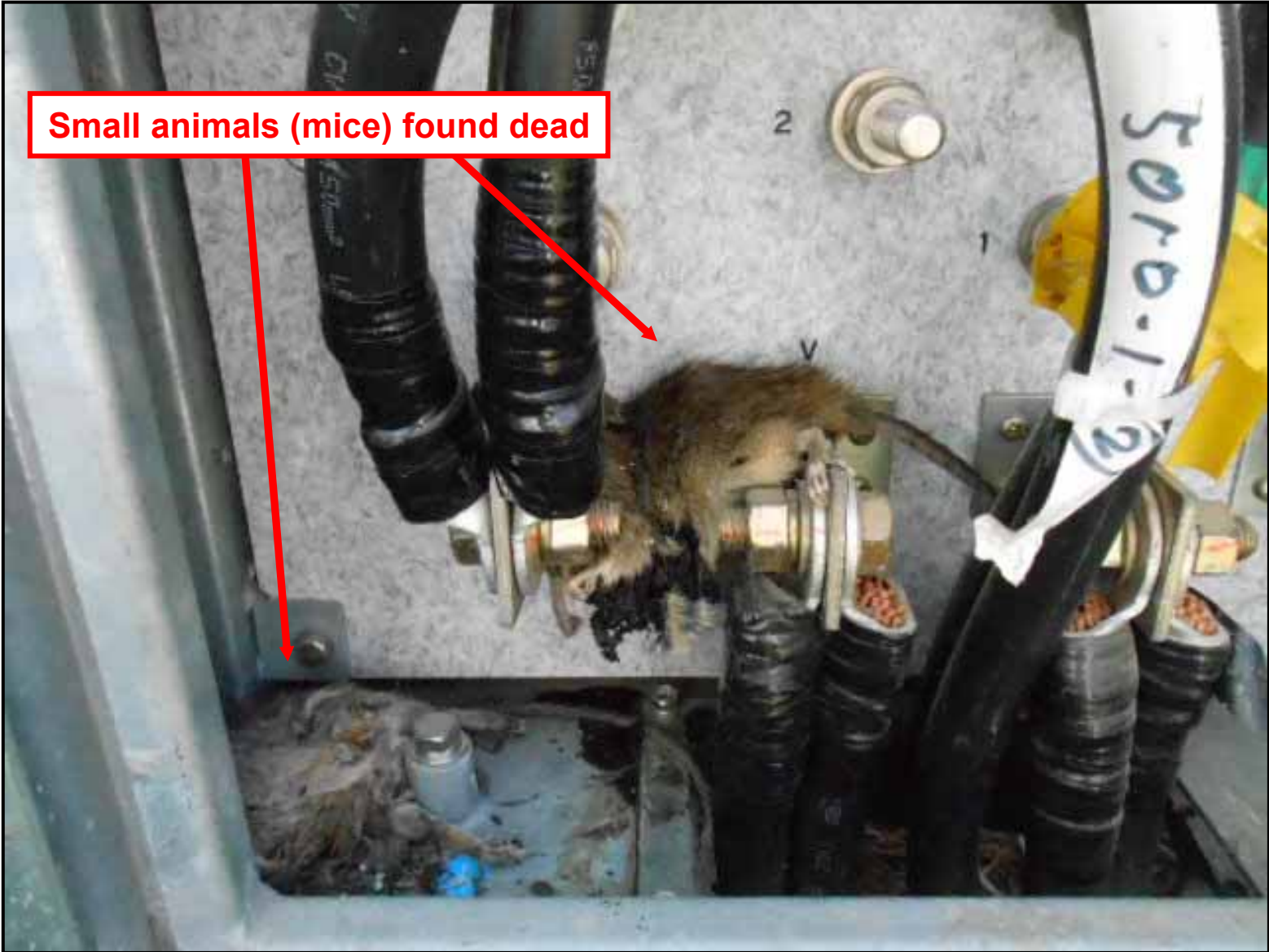


## Photo Taken at the Site (1)

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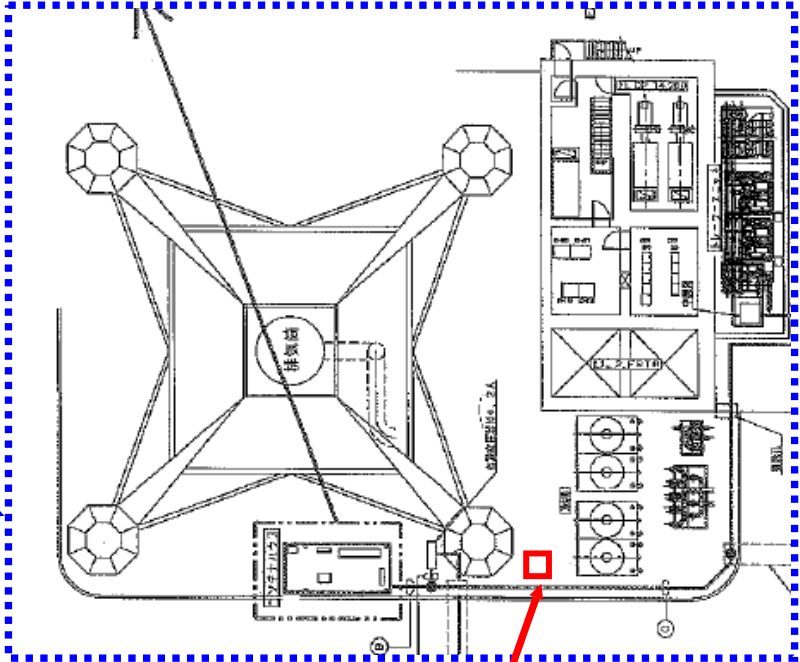
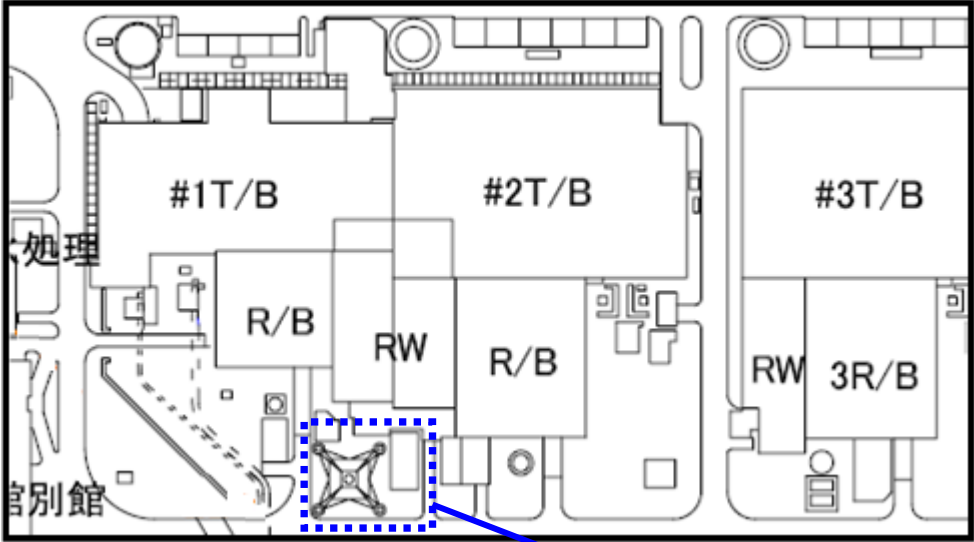


# Photo Taken at the Site (2)



# Layout of the Low Voltage Transformer Box

## (5) Layout of the low voltage transformer box



Low voltage transformer



# Inspection Results

## (6) Inspection results

After the small animals were removed, appearance inspection was performed on the transformer. No damage (burn) was found on the terminal and no abnormality was found with the appearance of other areas. As a result of insulation resistance measurement, no problem was found in the primary side of the transformer, the interphase on the secondary side and the voltage to ground.



After cleaning



After seal was applied