

Service News

Suggestion of Maintenance
for Safety and Relief
For the safe use of Sekigahara Product

SSN-009

[SUBJECT] DAMAGE OF THE CRANE BY ELECTRIC SHORT CIRCUIT

Accident Record

1. Applied model

Rope luffing type provision crane
Model: EEE, EEED

2. Date of manufacture

From the first production up to now

3. Outline

After stormy weather the day before, vessel crew noticed that the crane jib is bending. Further check revealed that the wire rope was reeled in the drum randomly. Moreover, it was reeled by reverse

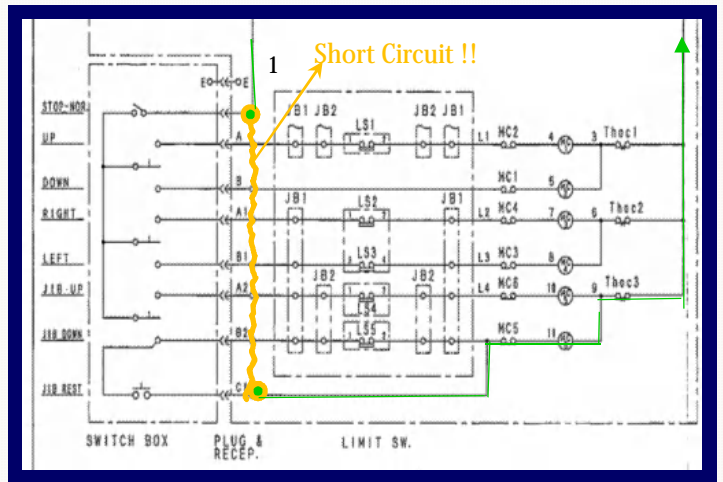
4. Cause

It was entering of water into electric circuit. The cap for receptacle was not closed completely and the electric circuit had short circuit. As a result, lowering movement started automatically and it kept going. (Not going through the line with limit switch.) Then, the lowering became hoisting up due to the reverse reeling in the drum. The wire rope was kept reeling until the jib was bent.

5. Prevention of accident



1. When the crane is not in use, main source in the magnetic switch box should be "OFF".
2. When the crane is not in use, ensure the cap for receptacle should be tightened completely and to close the door for receptacle protection box.
*Especially after bad weather
3. Carry out an inspection if there is no water inside of junction box.
4. Make sure to use the plug and receptacle to be dried condition. Check the connecting part very carefully before inserting the plug. In case water, salt or some dirt are found, clean and dry them well before use.
5. When the main source is "ON," keep the eye on the crane and check if there is any unexpected movement of the crane. In case the sign of malfunction is found, turn "OFF" the main source immediately.
6. When the crane is not in use, remote control switch box should be kept inside of residential area.



Case-1

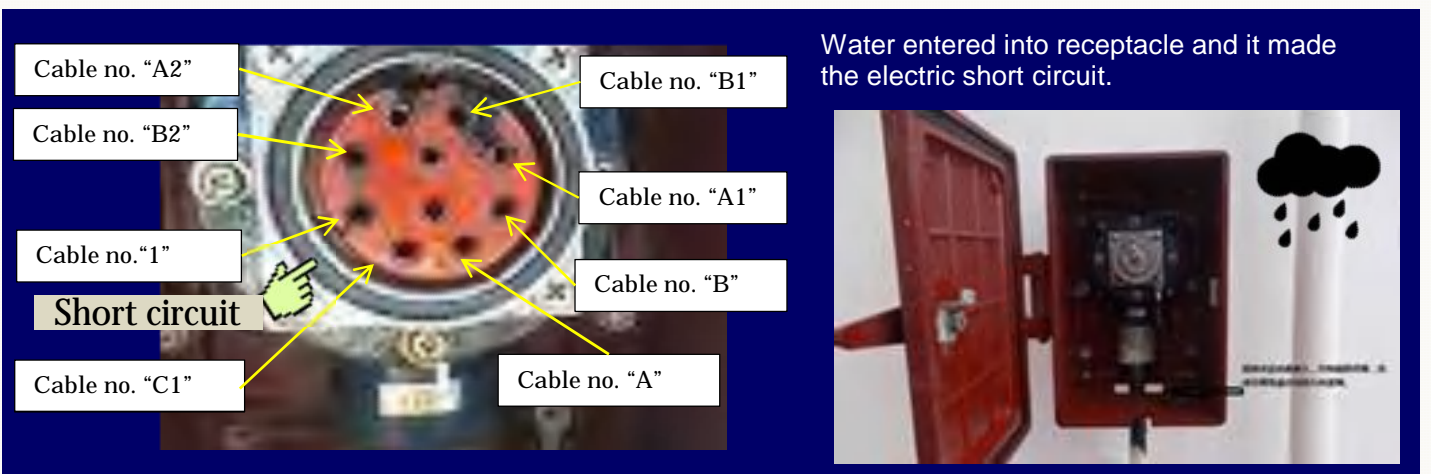
Jib moved randomly because there was water inside of Junction Box and it made the electric short circuit.



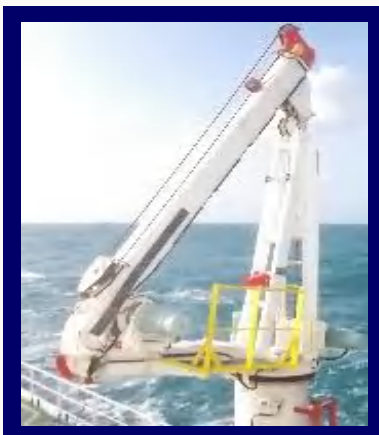
Water entered into Junction box and it made the electric short circuit.

Case-2

Since the connecting of receptacle for push button box is wet with water and the electric short circuit happened, the crane moved randomly without pushing the switch.



Water entered into receptacle and it made the electric short circuit.



All part of the crane on upper section from the fixed post had to be renewed as a result of the accident.



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