CAUSE ANALYSIS	CR Number	
NOP-LP-2001-03	03-00049	
Category / Eval Code: CA		
Condition Description and Cause Basis: If Yes, select	If Yes, select one	
비 Hardware / Degraded Condition Resolution Required?	🕅 Scrap 🔄 Use-As-Is	
Condition Description:		
Bump started RCP 1-2. Received annunciator 8-2-B, RCP 1-2 Motor Trouble/Trip. RCP 1-2 tripped instantaneously. Field report indicates the trip occurred on relay 87, Motor Differential.		
Discussion:		
Prior to this event, RCP 1-2 tripped the day before. Refer to CR 03-00042. Corrective action for that event required two phases of T - Leads to be swapped. The direction given by the Electrical Supervisor was that phase A and C should be swapped.		
The electrician assigned the task of performing this action, believed that phase C cable would exceed the minimum bend radius and swapped phase A and B instead. The configuration of Current Transformers feeding was changed to reflect this change.		
Following this event, a Troubleshooting plan was developed to determine the cause of the trip and included the following:		
 a) Remove breaker HB03 from its cubicle and perform an inspection of the breaker. b) Verify that breaker HB03 50/51A and 50/51C relays (P9-11382 and P9-11382) have the proper set point. c) De-terminate 2 or 3 T-leads at the motor terminal box to confirm proper T-lead labeling. d) Install the test fixture and ground one T-lead at a time at the test fixture and determine which lead at the motor indicates grounded. Repeat 1 or 2 times to Identify L1, L2, and L3 at the motor. e) Label leads appropriately. f) Terminate T-leads exactly as they were de-terminated. g) At the motor terminal box perform the following (refer to DWG E-0052B SH 46A and Westinghouse drawing 3800C61): Verify CT1 corresponds to station L1 Verify CT2 corresponds to station L2 Verify D1 connected to + of CT1 Verify D2 connected to + of CT3 Verify D11 connected to - of CT1 Verify D12 connected to - of CT1 Verify D13 connected to - of CT2 Verify D13 connected to - of CT3 h) Lift leads D12 and D13 at the motor terminal box. Verify continuity between positions 8 and 9 of 87M at 		
HB03. i) Land lead D12 and lift lead D11 at the motor terminal box. Verify continuity between positions 14 and 15 of 87M at HB03.		
 j) Land lead D13 and lift lead D12 at the motor terminal box. Verify continuity between positions 18 and 19 of 87M at HB03. k) Land leads D11 and D12 at the motor terminal box. l) Perform DB-PF-05064 de-energized motor tests of MP36-2 using the test fixture install in HB03. m) Remove the test fixture from HB03 and install breaker HB03. 		
Page 1 of 2	P.J	