GILES CHEMICAL CORPORATION									
COMPANY PROCEDURE									
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Author:	Patrick Owen	Title: (00) Changing a pH Meter Box							

Personnel responsible:

1. Technical

Safety equipment:

Safety glasses and safety shoes. Sulfuric acid is in use in the Digesters, take necessary precautions to prevent contact.

Summary:

Sometimes the cable for the pH Meter Box may need to be replaced. This procedure informs you how to do it.

Procedure:

Removing the Old Meter and mounting the New Meter

- 1. Inform the Lead Operator of what you are doing.
- 2. Stop the Digester (see the procedure for this)
- 3. Unplug the pH Meter.
- 4. Using a screwdriver, unscrew the 4 screws on the pH meter readout.
- 5. Using a screwdriver, remove the black plastic "ESD Shield"
- 6. Using a small screwdriver, loosen all cable connections.
- 7. Gently pull all of the wires loose from the readout.
- 8. Using a small screwdriver, push the hinge pin out of the hinge until you can pull it out with your hand.
- 9. The meter box is now loose, remove it.
- 10. Align the new meter box on the holder and insert the hinge pin.
- 11. Push the pin completely in place with a small screwdriver.
- 12. Remove the "ESD Shield" with a screwdriver.

Making Electrical Connections

- 13. The panel is labeled for the wires, so the following convention matches the panel.
- 14. Connect the electric cable white wire to terminal 19.
- 15. Connect the electric cable black wire to terminal 20.
- 16. Connect the large Green and Yellow wire to "shield".
- 17. Connect the small Green wire to "RTD D". The letter D will be in a box.
- 18. Connect the small White wire to "RTD E". The letter E will be in a box.
- 19. Connect the large Black wire to terminal 1, "meas el.".
- 20. Connect the small Red wire to terminal 2, "ref el.".
- 21. Connect a jumper from terminal 2 to terminal 3 this puts two wires in terminal 2.
- 22. Tighten all connections.
- 23. Clip the small blue and small gray wires and tape the ends.
- 24. Gently squeeze the wires to the side and replace the "ESD Shield"

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- Closing up the Box 25. Be very careful about bending the probe cable too sharply because it is very weak at this end.
- 26. Close the box and tighten the screws on the face of the panel.
 27. Plug in the pH Meter
- 28. Calibrate the meter..
- 29. Start the Digester.

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REVISION HISTORY

Revision Date Revision Number Revision Description
2/8/06 0 New Document