## **Heat Malfunction Calculation Worksheet**

Event #	<u>-</u>	
Heat #	Calculated by:	

Lane #	Pad Time	Button Times		Watch	Times	Average Watch	Official Time Before Adjust	Avg Watch Minus Pad	Official Time
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Total Difference:	
Average Difference:	

## Process:

- 1. Fill in ALL information available for all lanes swum...Pad Time, Button Times, Watch Times
- Review/Reconcile Pad Times before adjustment calculations; (are Pad Times validated by buttons? note → only look at buttons for this step; if verfied, write the time in Official Time Before Adjust column)
- 3. If the buttons don't verify the Pad Time, DO NOT use that lane in the malfunction calculations
- 4. Calculate average Watch Times for all lanes where Watch Times verify each other
- 5. If the Watch Times don't verify each other, DO NOT use that lane in malfunction calculations
- 6. Calculate the difference between the Watch Times and Pad Times (Watch Minus Pad column)
- 7. Add "Watch Minus Pad" column for the Total Difference
- 8. Divide Total Difference by number of good lanes to get Average Difference
- 9. Add Average Difference to each verified Pad Time(Official Time Before Adjust column) for the Official Time
- 10. Finish reconciling lanes not used in malfunction calculations
  - a. For lanes needing to use Button Times, do a lane adjustment first (avg Button Times if they verify each other) write the time in Official Time Before Adjust column, then adjust using the Average Difference for the Official Time
  - b. If nothing confirms, but Watch Times verify each other, use Average Watch Time with NO adjustment for Official Time
- 11. Be sure to check that the OOF (Order of Finish) remains the same for confirmation
- 12. The Referee/AO should always be informed of a system timing error and sign off on the mathematical calculations