APPLICATION FOR CERTIFICATION OF A ROAD COURSE
The Calibrated Bicycle Method

1. Name this Course will be Known By MACON LABOR DAY 5K
2. Advertised Race Distance 5K Race Date 09/03/2001
3. Location of Start MACON GA (city, state) Finish (if different) ________ (city, state)
4. Person in Charge of Measurement:
   BILL CAUSEY (name) 369 RIVERDALE RD. MACON GA (address) 31204 (zip) (478) 477-4416 (telephone)
5. Race Director (if course is measured for a specific race):
   STEVE CORKERY (name) 4718 GUERRY DR. MACON GA (address) 31210 (zip) (478) 477-4571 (telephone)
6. Should this course replace a previously-certified course? If so, give name/number of course to be replaced. YES - MACON LABOR DAY ROAD RACE 5K (GA88018WN)

CALIBRATION OF BICYCLE

7. Did you calibrate the bicycle on a calibration course previously certified by the Road Running Technical Council? YES (YES or NO)

   If YES, enclose a copy of the certificate and map verifying RRTC certification of the calibration course.
   If NO, you must enclose an Application for Certification of Calibration Course.
8. Is your **bicycle calibration data sheet** attached? YES (YES or NO)
9. Did you include the factor of 1.001 in your calibration constant? YES (YES or NO)

SUMMARY OF MEASUREMENTS

10. Date(s) of measurements 06/24/2001 & 07/08/2001
11. How many measurements of the course were made? 2
12. Name(s) of measurer(s) EARL TYLER, BILL CAUSEY
13. Exact length of course 5K / 3.1068560 MI.
14. Difference between longest and shortest measurements .0022596 MI. (11.93')
15. Which measurement was used to establish the final race course and WHY? THE 1ST MEASUREMENT WAS USED SINCE IT WAS THE LESSER OF THE 2 LENGTHS.
16. Is your **course measurement data sheet** attached? YES (YES or NO)

COURSE LAYOUT AND MARKING

17. Is your **course map** attached? YES (YES or NO)

    NOTE: The course map need not be to scale but must indicate direction of north. It must be black & white and fit on 8.5x11 paper. Descriptions of the **exact** positions of the **start**, **finish**, and all **turn-arounds** relative to permanent landmarks must be included on the map. Details of any restricted portions where cones and monitors are required must be detailed. Include a line representing the actual measured path.
18. List all intermediate **splits** (attach list describing the position of each relative to permanent landmarks.
19. How far from the curb (edge of pavement) did you measure on curves? AS CLOSE AS POSSIBLE, APPROX 6"
20. If your course contains pairs of opposite turns (right-to-left or left-to-right) did you follow the shortest diagonal path? YES (YES or NO)

    Be sure your map shows the exact measured path.

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The Calibrated Bicycle Method (continued)

21. Does your course contain any turn-around (double-back) points? NO (YES or NO)
If YES, show them on course map, located exactly.

22. Does your course include any winding or "S" curved sections? YES (YES or NO)
If YES, be sure your map makes it clear how you measured.

23. Did you measure an **unrestricted** route? Do the runners have use of the entire road, from curb to curb?
YES (YES or NO)
If your course requires cones or barriers to keep runners on the proper route, be sure your map shows their exact locations, just as you would locate the start and finish.

24. Type of coures (check one):

___ one loop ___ time(s)	___ same out/back ___ time(s)
___ figure-8 ___ time(s)	___ several out/back sections
___ partial loop	___ keyhole (out/loop/back)
___ complex of different loops	✓ point-to-point

25. Straight-Line Distance (as the crow flies) between Start and Finish 2.76 MI.

26. Altitude of Race Course above mean sea level (meters or feet – please specify which!):
start 535' finish 300' highest 535' lowest 300'

27. Type of surface (give percentages):

100% curbed streets	___ graded dirt road
___ uncurbed streets/roads	___ ungraded dirt road
___ concrete sidewalk	___ gravel road
___ concrete/brick streets/roads	___ undefined paved surface
___ paved bike path	___ undefined dirt surface
___ unpaved bike path	___ undefined grass surface
___ trail (single file)	___ track (curbed or uncurbed)

If your course includes any unpaved sections, please attach a detail of the method(s) used to measure such sections.

28. Have you included your start, finish and turn-around (if applicable) diagrams on your map?
YES (YES or NO)

29. How did you mark the start and finish points (and turn-around points)?
NAIL & WASHER IN PAVEMENT 12" FROM CURB & PAINT

30. Did the same person ride the bicycle on both the calibration course and the race course for any given measurement?
YES (YES or NO)

31. Describe weather conditions during the calibration and measurement rides:
COOL & SUNNY 1ST RIDE. WARM & SUNNY 2ND RIDE

32. Did you perform both the pre-measurement and post-measurement calibrations and the measurement of the race course on the same day?
YES (YES or NO)

COURSE MEASUREMENT DATA SHEET

Name of Course or Race Name MACON LABOR DAY 5K

Name of Measurer for ride #1 EARL TYLER — Working Constant #1 18546 COUNTS/MILE

Date 06/24/01 Start: Time 7:20 AM — Temperature 61° F

Finish: Time 8:35 AM — Temperature 70° F

Name of Measurer for ride #2 BILL CAUSEY — Working Constant #2 18162 COUNTS/MILE

Date 07/08/01 Start: Time 7:30 PM — Temperature 88° F

Finish: Time 8:15 PM — Temperature 85° F

Measurement Data. Use the first measurement ride to lay out the start/finish points and all intermediate split points. Use the second ride to record counts at those **same** points. **Do not lay out a second set of marks!**

Measured Point	Counts for Measurement #1 Recorded	Interval	Counts for Measurement #2 Recorded	Interval
START	667620		990086	
		18546		18186
1 MI.	686166		008272	
		18546		18187
2MI.	704712		026459	
		18546		18164
3MI.	723258		044623	
		1982		1931
FINISH	725240		046554	

Preliminary Course Length	start-to-finish counts	divide by	working constant	=	measured length
Measurement #1	57620	/	18546	=	3.1068694
Measurement #2	56468	/	18162	=	3.1091290

Difference between lengths #1 and #2	divide by	length #1	=	Measurement comparison (less than 0.0008?)	
.0022596	/	3.1068694	=	.00072729159	YES (✓) [yes or no]

IMPORTANT. Before you leave the course, compare the two measurements. They should agree to within 0.08%. If the two preliminary measurements do not agree to within 0.08%, something is wrong. Fix it! Then go to the calibration course and recalibrate.

If either of the **Constants for the Day** (for measurement #1 or #2) is **not** the same as the **Working Constant** for that measurement, recalculate the length of the course here:

Final Course Length	start-to-finish counts	divide by	constant for day	=	length of course
Measurement #1		/		=	
Measurement #2	56468	/	18166	=	3.1084443

The length of the race course is the *lesser* of the two lengths calculated above.

Measured course length 3.1068694 MI. Desired course length 3.1068560 MI.

Use a steel tape to add or subtract distance as required to bring the **minimum** length to the same value as the desired course length.

How much did you add or subtract, and where (start, finish, turn-around point)?

NO ADJUSTMENT MADE (CHANGE WOULD BE -.85 INCHES)

Note: you need not adjust intermediate split points unless certification is desired for those points as well. Did you adjust the intermediate points and, if so, how? INTERMEDIATE POINTS NOT ADJUSTED