## Model Aquatic Health Code Module Review Comment Form

The Model Aquatic Health Code (MAHC) Steering Committee and Technical Committees appreciate your willingness to comment on the draft MAHC modules. Comments are due 60 days after the draft module is posted on the MAHC website. Please complete all fields including contact information and provide your detailed comments as completely and succinctly as possible. Please save this form and e-mail to MAHC@cdc.gov with the Module Name in the Subject Line. If this is not possible, please send printed copies to:

MAHC Coordinator Waterborne Disease Prevention Branch Division of Foodborne, Waterborne, and Environmental Diseases Centers for Disease Control and Prevention, Mailstop C-09 1600 Clifton Rd NE Atlanta, GA 30329-4018

NOTE: All comments must be received or postmarked by the submission deadline.

**NOTE:** As part of the MAHC public comment process, all comments as well as reviewer names and affiliations are public information and will be included in the public comment response document to be posted to the MAHC section of the Healthy Swimming website.

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**Comment Instructions:** Please see reviewing guidance at the front of each module for details about the draft module and submitting comments. **Reminder:** please be as specific, complete and succinct as possible in suggestions for improving this draft module. Use the following form fields to submit one change per line. Comments are helpful but suggested revisions to address the comment will speed the review and posting process. Use additional pages as necessary. Fields will expand to accommodate the text.

- 1. **Draft MAHC Module Section Number:** Provide specific number (e.g., 6.2.1) of draft MAHC section where a change is needed.
- 2. Recommended New Draft MAHC Section Language: Provide specific amended language.
- 3. **Basis for Suggested Change:** Are these comments supported by published scientific studies, existing state or local codes, or other references or editorial in nature?
- 4. **Reference Citation Supporting Suggested Change(s):** Please provide the full reference citation information that supports suggested change(s) including notation of specific page number or section number. Mark *Editorial*, if no reference information is provided

Module	Recommended New Draft MAHC Module Section Language	Basis for Change	<b>Reference</b> Citation
Section			
Number			
4.8.3.1	Starting platforms shall be installed and conform to applicable	To better clarify the	Editorial
Code	standards established by the Federation Internationale de	intent of the section.	
	Natation (FINA), USA Swimming, National Collegiate Athletic		
	Association (NCAA), National Federation of State High School		
	Associations (NFHS), <u>YMCA</u> or other sanctioning bodies.		
4.8.3.1	The intent is to require <u>4 feet (1.22 meters)</u> <del>6 feet 7 inches (2m)</del>	Correction: FINA's	Dr. Joel Stager and the
Annex	water depth unless there is a different governing body (e.g.	minimum starting depth	Counsilman Center for
	FINA, USA Swimming, NCAA, NFHS NFSHSA, YMCA, etc.)	is 4 feet 6 inches.	the Science of Swimming
	standard that is applicable for sanctioned competitions and for		completed a study in
	organized practice. FINA USA Swimming, NFHS and the	Editorial Comment:	2011 on racing start
	NCAA allow 4 feet (1.22 m) at starting platforms. As is well	Instruction and	safety published in the
	documented in case histories and litigation, this depth is unsafe	supervision is the	International Journal of

## Copy and Paste Additional Comment Rows as Needed

Module	Recommended New Draft MAHC Module Section Language	Basis for Change	<b>Reference</b> Citation
Section		_	
Number			
	for high school age beginners. Five feet (1.52 m) is on the edge	primary key to safety. It	Aquatic Research and
	of safety for a high school age male to make a starting error. The	is important that the	Education. Pages 187-
	most conservative and safest starting depth is 6 feet 7 inches or	Code and Annex	198 of this study address
	2-meters. This is consistent with the recommended minimum	recommend supervision	the demonstrated ability
	starting depth for Olympic competition.	of a certified coach.	of competitive swimmers
			to modify racing start
	A seminal study in 1990 investigated 74 neck injuries occurring	There is no definitive	depth when directed.
	with use of springboards and jumpboards. Of these injuries,	documentation or	http://www.indiana.edu/~
	12.2% occurred in water less than or equal to 4 ft; 66.2%	research that supports	kines/pdf_files/council/W
	occurred in water less than or equal to 5 ft., 94.6% occurred in	the statement "this	hite_2011.pdf
	water less than or equal to 6ft. all injuries occurred in water of 7	depth is unsafe for high	
	ft or less. These data support increased the diving depth under	school age beginners.	Suggestion: We strongly
	diving boards or starting blocks due to the increased height	Five feet (1.52m) is on	recommend that the
	before entry and associated increased body velocity.	the edge of safety for a	Technical Committee
		high school age male to	meet with Dr. Stager to
	The Counsilman Center for The Science of Swimming	make a starting error."	get his input. Dr. Stager
	completed a study in 2011 on racing start safety. This study		is arguably the leading
	suggests that proper education, awareness and supervision are	There is no research to	authority in the USA on
	the keys to safe racing starts. Racing starts should always be	support the claim that 6	racing start safety. USA
	performed under the direct supervision of a certified coach.	feet 7 inches is the safest	Swimming would be
		starting depth. Also,	happy to assist with
		6'7" depth is not the	arranging such a meeting.
		recommended minimum	
		starting depth for	
		Olympic competition.	Note FINA Rules FR 2.3
		<b>XX7</b> ( 11	(pg. 361) and FR 3.3 (pg.
		We strongly suggest that	364) in the 2009-2013
		you remove the final	FINA Handbook
		paragraph in this section	
		since the referenced	

Module	Recommended New Draft MAHC Module Section Language	Basis for Change	<b>Reference Citation</b>
Section			
Number		1000 stude s studie	
		reviewed the use of	Multiple editorial
		springboards and	comments.
		jumpboards and not	
		starting platforms. The	
		angle of entry for dives	
		off of jumpboards and	
		diving boards is entirely	
		different than for racing	
		starts. This study has no	
		bearing whatsoever on	
		Tacing start safety.	
4.8.2.1	Starting platforms shall be removed or prohibited from use	No change; supporting	Editorial
Code	during all recreational or non-competitive swimming activity.	comment.	
		Editorial Comment:	
		Separating recreational	
		swimming from	
		competitive swimming	
		is the most effective	
		way to facilitate a	
		water depth for	
		competitive use of	
		starting platforms.	
		Prohibiting and	
		preventing use of	
		starting platforms by	
		recreational swimmers	
		is paramount.	

Module	Recommended New Draft MAHC Module Section Language	Basis for Change	Reference Citation
Section Number			
Tumber			
4.8.3.3 Code	Starting platforms shall be installed in a minimum water depth of <del>6 feet and 7 inches (2.01 m)</del> 4 feet (1.22 meters).	The industry standard in the United States is 4 feet as evidenced by NCAA, NFHS, and USA Swimming rules. <u>Point of Information</u> : 6 ft. 7 inches is the minimum competition pool depth required by FINA for the Olympic Games and World Championships. This is the high performance depth specified for elite level international competition. It is a "fast- pool" factor not a safety feature. FINA's minimum depth for racing starts is 1.35 meters (4ft. 6 in.).	The Counsilman Center for The Science of Swimming completed a study in 2011 on racing start safety published in the International Journal of Aquatic Research and Education. Pages 187- 198 of this study address the demonstrated ability of competitive swimmers to modify racing start depth when directed. http://www.indiana.edu/~ kines/pdf_files/council/W hite_2011.pdf Note FINA Rules FR 2.3 (pg. 361) and FR 3.3 (pg. 364) in the 2009-2013 FINA Handbook
		Editorial Comment: The proposed 6'7" minimum depth arbitrarily changes the current industry standard with no	Multiple editorial comments.
		definitive research or	

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Section			
Number			
		analysis to support that	
		6'7" is safer than 4' or	
		any other depth.	
		Editorial Comment:	
		Greater pool depth does	
		not guarantee racing	
		start safety. Proper	
		education, awareness	
		and supervision are the	
		keys. USA Swimming	
		requires a specific	
		teaching progression for	
		racing starts. In addition,	
		it is required that all	
		swimmers be certified as	
		proficient in performing	
		a racing start before they	
		are permitted to start in	
		4 feet.	
		Editorial Comment: If	
		the minimum 6'7"	
		requirement is part of	
		the final code, it will be	
		very problematic for	
		competitive swimming	
		and for many	
		recreational programs.	
		Thousands of pools that	

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Section			
Number			
		currently host swim meets and practices for every major competitive swimming organization would be adversely impacted.	
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