

Proposal for Task Force CISSC 2015 Biennial Meeti Submitter Affiliation Address Line 1 Address Line 2 City, State, Zip Phone Fax Email Proposal Subject Specific NSSP Guide Reference Text of Proposal/ Requested Action	Thomas L. Howell Spinney Creek Shellfish, Inc. PO Box 310 Eliot, ME 03903 207-439-2719 207-439-7643 tlhowell@spinneycreek.com Alternative Male-specific Colipha, Growing Areas Impacted by waste Section II. Model Ordinance Chapter IV. Shellstock Growing A @ .02 Bacteriological Standards G. Standard for the Restricted	ewater treatmen	Growing Area Harvesting/Handling/Distribution Administrative ard for Restricted Classification of nt plant outfall.
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Requested Action		Classification	of Growing Areas Affected by Point
	Sources and Used as a Shells	stock Source fo	or Shellstock Depuration.
	verification using an existing fecal coliforused, then FC water	end-point me rm testing req quality monito	cator is used for supplemental process eat standard of < 50PFU/100gm and uirements in Chapter XV .03 J. are pring is not required for the restricted affected by point sources such as
	wastewater treatment	plant outfall.	
Public Health Significance	Under shellfish relay, water quality requirements are not needed for the restricted classification when a contaminant reduction study is conducted and a minimum time period of two weeks is used. For depuration, the restricted classification requires water quality monitoring and standards. The reason for these upper FC limits is that FC meat indicator does not adequately reflect the viral risk and/or viral depuration kinetics. Male-specific coliphage is a viral indicator organism to be used in growing areas impacted by point source sewage contamination. MSC demonstrates significant advantages over FC alone for both the assessment of viral contamination and assessment of viral depuration kinetics. Upper FC limits were put into the NSSP to prevent shellfish with higher levels of viruses from being depurated. Several studies clearly show that conventional depuration using FC for process validation is not adequate to protect public health with respect to virus contamination in growing areas with significant wastewater treatment plant and sewage impact. Studies have also shown that viral levels in shellfish impacted by sewage and partially treated sewage detected using MSC and molecular techniques are much lower in the summer months than the winter months. Additionally, the viral depuration rate is higher in the summer with process waters >18°C. Recent studies have also shown that MSC is an appropriate viral indicator to assess viral depuration. Therefore, seasonal viral depuration using male-specific coliphage as well as FC for process verification is a superior approach to taking water samples using FC in a growing area adjacent to wastewater treatment plant outfall. Combining the bacterial indicator of FC and the viral indicator MSC for mitigation strategies that use meat scores is far more direct		
Cost Information	and effective than water quality sa The Male-specific Coliphage (MS method that can be run in an	C) method is a	an inexpensive double-agar pour plate



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Action by 2011 Task Force I	refrigerated centrifuge capable of 9,000G is required which costs \$10K to \$12K (USD). Significant cost savings and a higher level of public health protection may be realized using strategies such as seasonal coliphage depuration process validated using MSC and seasonal coliphage relay using MSC in contaminant reduction studies than requiring water quality limits using FC. Recommend referral of Proposal 11-103 to the appropriate committee as determined by the Conference Chairman.
Action by 2011	Adopted recommendation of 2011 Task Force I on Proposal 11-103.
General Assembly	C111
Action by FDA	Concurred with Conference action on Proposal 11-103.
February 26, 2012	December 1 of December 1 11 102 to the constitute of the constitut
Action by 2013	Recommend referral of Proposal 11-103 to the appropriate committee as determined
Growing Area Classification Committee	by the Conference Chairman.
Classification Committee	
	It was additionally recommended that a workgroup be formed to look at current MSC data and the science behind its potential use and applicability for use in the NSSP. The workgroup will organize a summit of outside experts, academia, and scientists to present current information and science on MSC. The group will meet at least quarterly and respond back to the Growing Area Classification Committee on its findings and recommendations. Recommended that the ISSC pursue funding to facilitate scheduling a summit to bring
	together experts to present the current science in the use of MSC.
Action by 2013	Recommended adoption of Growing Area Classification Committee action on
Task Force I	Proposal 11-103.
Action by 2013	Adopted recommendation of 2013 Task Force I on Proposal 11-103.
General Assembly	
Action by FDA	Concurred with Conference action on Proposal 11-103.
May 5, 2014	