Proposal No.	11-103

Proposal for Task Force Consideration at the ISSC 2019 Biennial Meeting		<ul> <li>a. ⊠ Growing Area</li> <li>b. □ Harvesting/Handling/Distribution</li> <li>c. □ Administrative</li> </ul>
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Proposal Subject		hage Meat Standard for Restricted Classification of
1 3	Growing Areas Impacted by was	
Specific NSSP	Section II. Model Ordinance	•
Guide Reference	Chapter IV. Shellstock Growing	g Area @ .02 Bacteriological Standards
Text of Proposal/		ted Classification of Growing Areas Affected by
Requested Action	Point Sources and Used as	s a Shellstock Source for Shellstock Depuration.
	process verification 50PFU/100gm and Chapter XV .03 J. required for the respont sources such	fic Coliphage indicator is used for supplemental on using an end-point meat standard of < d existing fecal coliform testing requirements in are used, then FC water quality monitoring is not estricted classification of growing areas affected by as wastewater treatment plant outfall.
Public Health		ality requirements are not needed for the restricted
Significance	time period of two weeks is used requires water quality monitorial limits is that FC meat indicator viral depuration kinetics. Male be used in growing areas impact demonstrates significant advantation and assessment of put into the NSSP to prevent sedepurated. Several studies clear process validation is not adequated contamination in growing areas sewage impact. Studies have also sewage and partially treated seware much lower in the summer viral depuration rate is higher in studies have also shown that M depuration. Therefore, seasonal well as FC for process verifications using FC in a growing area. Combining the bacterial indicates	ant reduction study is conducted and a minimum used. For depuration, the restricted classification ing and standards. The reason for these upper FC or does not adequately reflect the viral risk and/or especific coliphage is a viral indicator organism to cted by point source sewage contamination. MSC tages over FC alone for both the assessment of viral of viral depuration kinetics. Upper FC limits were shellfish with higher levels of viruses from being arly show that conventional depuration using FC for uate to protect public health with respect to virus as with significant wastewater treatment plant and also shown that viral levels in shellfish impacted by wage detected using MSC and molecular techniques months than the winter months. Additionally, the in the summer with process waters >18°C. Recent MSC is an appropriate viral indicator to assess viral all viral depuration using male-specific coliphage as tion is a superior approach to taking water samples adjacent to wastewater treatment plant outfall. For of FC and the viral indicator MSC for mitigation is far more direct and effective than water quality

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Cost Information	The Male-specific Coliphage (MSC) method is an inexpensive double-agar pour plate method that can be run in any state-certified microbiological laboratory. A 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.
Action by 2011	Recommend referral of Proposal 11-103 to the appropriate committee as
Task Force I	determined by the Conference Chairman.
Action by 2011	Adopted recommendation of 2011 Task Force I on Proposal 11-103.
General Assembly	
Action by FDA	Concurred with Conference action on Proposal 11-103.
February 26, 2012	
Action by 2013	Recommend referral of Proposal 11-103 to the appropriate committee as
Growing Area	determined 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.
	on its initings 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	
Action by 2015 Growing	Recommended referral of Proposal 11-103 to appropriate committee as determined
Area Classification	by the Conference Chair.
Committee	
Action by 2015 Task	Recommended adoption of Growing Area Classification Committee
Force I	recommendation on Proposal 11-103.
Action by 2015	Adopted recommendation of Task Force I on Proposal 11-103.
General Assembly	Consumed with Conference action on Proposal 11 102
Action by FDA January 11, 2016	Concurred with Conference action on Proposal 11-103.
Action by 2017 Growing	Recommended adoption of Proposal 11-103 as amended.
Area Committee	100 as anonded.
	Add a new section as follows:
	Chapter XV. Depuration
	.03 Other Model Ordinance requirements
	K. Supplemental Requirements for Depuration using MSC Viral Controls for Shellstock
	Harvested from Conditionally Restricted Growing Areas Impacted by Wastewater System
	Discharge (WWSD).

If the conditionally restricted growing area from which the shellstock is being depurated is impacted by wastewater treatment system discharge (generally that section of the conditionally restricted growing area located within the 300:1 to 1000:1 dilution lines), then supplemental requirements for depuration using MSC viral controls may be required. Depuration using MSC viral controls may be seasonally limited and may be species and depuration facility specific. Contaminant reduction studies as described in (1) below are recommended unless the SSCA and the Depuration Facility Operator have significant experience with the depuration process using MSC viral controls.

- (1) Male-specific coliphage may be used in addition to fecal coliform for species-specific, growing area-specific, and depuration system-specific contaminant reduction studies. These contaminant reduction studies should demonstrate that;
  - (a) Predictable periods of time exist when male-specific coliphage levels are less than 1,000 PFU/100gm in shellfish meats,
  - (b) Male-specific coliphage and fecal coliform can be consistently reduced below end-point requirements, and
  - (c) Critical limits of season, process water temperature and salinity, and system design and operation limitations can be assessed and determined
  - (d) Species-specific operating protocols may be developed from the contaminant reduction studies for each conditionally restricted growing area that includes;
    - (i) Calendar dates when depuration shall be permitted,
    - (ii) Water temperature and salinity limitations,
    - (iii) Minimum processing time,
    - (iv) Sampling requirements and release criteria, and
    - (v) Operating Protocol.
- (2) All requirements of Chapter XV shall be followed,
- (3) A single 0-day MSC shellfish meat sample is required.
- (4) The MSC end-point requirement for depuration is 50 PFU/100gm. If the single 0-day sample exceeds 50 PFU/100gm, then triplicate samples are required prior to release of product.
- (5) The geometric mean of the triplicate samples used for product release must not exceed 50PFU/100gm and no single sample over 100 PFU/100gm.
- (6) Extended depuration may be permitted to achieve end-point requirements.
- (7) Evaluation of male-specific coliphage samples shall be performed in an NSSP conforming laboratory,

Action of 2017 Task Force I Recommended adoption of Growing Area Classification Committee recommendation on Proposal 11-103.

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Action by FDA	Did not concur with Conference action on proposal 11-103
February 7, 2018	
Action by ISSC Executive	Referred Proposal 11-103 to an appropriate committee as determined by the Conference
Board	Chair.