Proposal for T at the ISSC 20	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	 a. ⊠ Growing Area b. □ Harvesting/Handling/Distribution c. □ Administrative 			
2. Submitter	US Food & Drug Administration (FDA)				
3. Affiliation	US Food & Drug Administration (FDA)				
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10 Proposal Subject	MPN-Real-Time PCR for Enumeration of Vibrio vulnificus in Ovsters				
11 Specific NSSP	Section IV, Guidance Documents, Chapter II, Growing Areas, 14 Approved NSSP				
Guide Reference	Laboratory Tests.				
12 Text of Proposal/	conosal/ 5 Approved Methods for Vibrio Enumeration				
Requested Action		Vibrio Indicator Type:	Application: PHP Sample Type: Shucked	Application: Reopening	
	EIA ¹	Vibrio vulnificus (V.v.)	X		
	MPN ²	Vibrio vulnificus (V.v.)	X		
	MPN ⁵	vibrio vuinificus (v.v.)	Δ		
	MPN ³	Vibrio parahaemolyticus (V.p.)	X		
	PCK MPN-Real Time PCR ⁶	<i>vibrio paranaemolyticus (v.p.)</i>		v	
		parahaemolyticus (V.p.)	Λ	Λ	
	MPN-Real Time PCR ⁷	Vibrio parahaemolyticus (V.p.)	X	X	
	Direct Plating Method ⁸	Vibrio parahaemolyticus (V.p.)		Χ	
	MPN-Real Time PCR ⁹	<u>Vibrio vulnificus (V.v.)</u>	<u>X</u>		
	 Footnotes: ¹ EIA procedure of Tamplin, et al, as described in Chapter 9 of the FDA Bacteriological Analytical Manual, 7th Edition, 1992. ² MPN method in Chapter 9 of the FDA Bacteriological Analytical Manual, 7th Edition, May 2004 revision, followed by confirmation using biochemical analyses or by the DNA -alkaline phosphatase gene probe for vvhA as described by Wright et al., or a method that a State can demonstrate is equivalent. ³ MDM and the Chapter 9 of the FDA Data is here in the photo by the DNA - alkaline photo by the DNA - alkaline phosphatase gene probe for vvhA as described by Wright et al., or a method that a State can demonstrate is equivalent. 				
	 ²⁰⁰⁴ revision, followed by confirmation using biochemical analyses or the DNA-alkaline phosphatase gene probe for th as described by McCarthy et al., or a method that a State can demonstrate is equivalent. ⁴ MPN method in Chapter 9 of the FDA Bacteriological Analytical Manual, 7th Edition, May 2004 revision, and as described in the "Direct Plating Procedure for the Enumeration of Total and Pathogenic <i>Vibrio parahaemolyticus</i> in Oyster Meats" developed by FDA, Gulf Coast Seafood Laboratory, or a method that a State can demonstrate is equivalent. 				
	⁵ <i>Vibrio vulnificus</i> , ISSC Su	mmary of Actions 2009. Proposal 09	-113, Page 123.		
	⁶ MPN-Real Time PCR Method for the tdh and trh Genes for Total <i>V. parahaemolyticus</i> as described in Kinsey et al., 2015. ISSC 2015 Summary of				
	Actions Proposal 15-111, Pagene for total V. parahaemo	age 397. ⁷ MPN-Real Time PCR Met <i>plyticus</i> as described in Kinsey et al.,	hod for the <i>tlh</i> 2015. ISSC		

	2015 Summary of Actions Proposal 15-113, Page 418		
	⁸ Direct Plating Procedure in Chapter 9 of the FDA Bacteriological Analytical Manual, 7th Edition,		
	May 2004 revision, and as described in the 'Direct Plating Procedure for the Enumeration of Total		
	and Pathogenic <i>Vibrio parahaemolyticus</i> in Oyster Meats' developed by FDA, Gulf Coast Seafood Laboratory. ⁹ <u>MPN-Real Time PCR Method for the vvh gene for total V. vulnificus as described in Kinsey et al.</u> , 2015.		
13. Public Health	This MPN-real-time PCR method provides results in as little as 24_h from receipt of		
Significance	sample. The current NSSP methods for enumeration of Vv have limitations: the		
-	traditional MPN requires a minimum of 3 days and the SYBR Green PCR is only		
	validated on an instrument platform which is no longer supported by the		
	manufacturer. This method provides an additional option for laboratories to		
	maintain the same level of testing as has been maintain <u>ed</u> in the program.		
14. Cost Information	This method costs ~\$100 per sample for laboratory consumables, supplies, and		
	reagents. Most equipment needed for testing is standard microbiology equipment,		
	but purchase of a heat block (~\$400) and/or centrifuge (~\$2,500) may be necessary.		
	Purchase of a real-time PCR instrument will be required (\$30,000-\$45,000).		
	Additional costs for a laboratory would vary based on their operational overhead		
	and labor.		