Firm Name, City & State:	FEI Number:
Inspection Date(s):	FCE Number:
Investigators:	

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION

ASEPTIC PROCESSING AND PACKAGING REPORT

This inspection report is available in PDF on the forms site: http://www.fda.gov/opacom/morechoices/fdaforms/ora.html. Narrative responses to each item can be entered in the item's "comments" area or where otherwise prompted. Complete documentation of deficiencies, including deviations from Part 113, should be narrated with reference to photos, exhibits, etc., in the EIR under "Objectionable Conditions and Management's Response." Under "Container Sterilizing, Filling AND Closing Operations" (pp. 11-16), answer only questions pertaining to operations observed during the inspection. When necessary, refer the reader to the appropriate section of the EIR for a full explanation of details.

This form should be downloaded from the forms site prior to completion and copying. Submit the finished report as

an	an attachment to the EIR.			
	ESTABLISHMENT REGISTRATION – 108.35(c)(1)			
1.	HAS THE FIRM REGISTERED ITS PROCESSING ESTABLISHMENT WITH FDA? Yes No IF FIRM HAS REGISTERED, THE FCE NO. IS COMMENTS:			
	PROCESS ESTABLISHMENT AND FILING – 108.35(c)(2), 113.83			
2.	HAVE SCHEDULED PROCESSES BEEN FILED WITH FDA LISTING ALL CRITICAL FACTORS NECESSARY TO ACHIEVE COMMERCIAL STERILITY FOR THE PRODUCT, THE PRODUCT STERILIZATION SYSTEM, THE PACKAGING STERILIZATION SYSTEM AND THE PACKAGING MATERIAL? Yes No COMMENTS:			
3.	HAVE SCHEDULED PROCESSES USED BY THE FIRM BEEN RECOMMENDED BY A PROCESS AUTHORITY (LETTER, BULLETIN, SOP MANUAL, ETC.)?			
4.	DOES THE FIRM HAVE A PROCESS LETTER OR OTHER DOCUMENTATION LISTING CRITICAL FACTORS NECESSARY TO CONTROL IN THE ATTAINMENT OF COMMERCIAL STERILITY? Yes No COMMENTS:			
5.	ARE FILED PROCESSES AT LEAST EQUAL TO RECOMMENDED PROCESSES PROVIDED BY THE PROCESS AUTHORITY?			
6.	DOES THE FIRM HAVE ON FILE SUPPLEMENTAL INFORMATION LISTING PROCEDURES FOR PRE-STERILIZATION AND STERILITY MAINTENANCE OF PROCESSING AND PACKAGING EQUIPMENT AND STERILIZATION OF PACKAGING MATERIAL? Yes No COMMENTS:			

Firr	n Name: FEI Number:	
7.	HAVE FILED, SCHEDULED PROCESSES BEEN CHANGED IN SUCH A WAY THAT COULD AFFECT THE ATTAINMENT OF COMMERCIAL STERILITY?	
8.	IF PROCESS CHANGES HAVE BEEN MADE THAT COULD AFFECT THE ATTAINMENT OF COMMERCIAL STERILITY, HAVE THE CHANGES BEEN REVIEWED AND SUBSTANTIATED BY A QUALIFIED SCIENTIFIC AUTHORITY AND FILED WITH FDA?	
9.	LIST THE FIRM'S PROCESS AUTHORITIES:	
10.	ARE PROCESS AUTHORITIES THE SAME AS THOSE FILED WITH FDA? Yes No COMMENTS:	
11.	LIST ALL PRODUCTS COVERED DURING THIS INSPECTION:	
	PRODUCT STYLE OF PACK CONTAINER TYPE/SIZE	
	COMMENTS:	
12.	LIST ALL FACTORS CRITICAL TO THE ATTAINMENT AND MAINTENANCE OF COMMERCIAL STERILITY PER PROCESS AUTHORITY LETTER AND FDA FILING FORMS FOR PRODUCTS COVERED DURING THIS INSPECTION (INCLUDE PRE-STERILIZATION AND MAINTENANCE OF STERILITY IN THE ASEPTIC PROCESSING AND PACKAGING SYSTEMS AND SURGE TANKS AS WELL AS THE PROCESSING, PACKAGING AND HOLDING OF PRODUCTS IN THESE SYSTEMS):	
	RAW MATERIALS	—
13.	DOES THE FIRM TAKE ADEQUATE MEASURES TO PREVENT THE BUILD-UP OF MICROORGANISMS IN UNPROCESSED PRODUCT BEFORE THERMAL PROCESSING?	
14.	WHAT IS THE SOURCE OF WATER USED FOR PROCESSING AND CLEAN-UP IN THE PLANT?	
15.	IS PLANT WATER ADEQUATELY TREATED WITH CHLORINE OR OTHER APPROVED CHEMICALS TO RENDER IT POTABLE? Yes No COMMENTS:	

Firm Name:		
16.	ARE ALL FOOD AND COLOR ADDITIVES FDA APPROVED? COMMENTS:	Yes No
	PRODUCT PREPARATION – 113.81	
17.	ARE PRODUCTS PREPARED ACCORDING TO THE METHOD AND/OR FORMULATION SPECIFIED IN THE RECOMMENDED SCHEDULED PROCESS? COMMENTS:	Yes 🗌 No 🗍
18.	ARE INGREDIENTS WEIGHED PROPERLY USING ACCURATE SCALES?	Yes No
	PRODUCT STERILIZATION EQUIPMENT AND CONTROLS	
TEN	IPERATURE INDICATING DEVICE – 113.40(g)(1)(i)(a)	
19.	IS THE PRODUCT STERILIZER EQUIPPED WITH AT LEAST 1 MERCURY-IN-GLASS THERMOMETER OR EQUIVALENT TEMPERATURE INDICATING DEVICE (TID) THAT COMPLIES WITH PART 113.40(g)(1)(i)(a)?	Yes No
20.	IS THE TID CHECKED FOR ACCURACY AT LEAST ONCE PER YEAR AND DOCUMENTED PER PART 113.40(g)(1)(i)(a)?	Yes 🗌 No 🗌
TEN	IPERATURE RECORDING DEVICE – 113.40(g)(1)(i)(b)	
21.	IS THE TEMPERATURE RECORDING DEVICE EQUIPPED WITH A TEMPERATURE SENSOR INSTALLED IN THE PRODUCT FLOW AT THE HOLDING TUBE OUTLET BETWEEN THE HOLDING TUBE AND THE INLET TO THE COOLER?	Yes No
22.	IS THE TEMPERATURE RECORDING DEVICE ADJUSTED TO AGREE AS NEARLY AS POSSIBLE WITH BUT NEVER HIGHER THAN A KNOWN ACCURATE MERCURY-IN-GLASS THERMOMETER? COMMENTS:	Yes 🗌 No 🗍
23.	DOES THE TEMPERATURE RECORDING DEVICE COMPLY WITH ALL REQUIREMENTS OF 113.40(g)(1)(i)(b)?	Yes 🗌 No 🗌
TEN	IPERATURE RECORDER-CONTROLLER (TRC) – 113.40(g)(1)(i)(c)	
24.	IS THE TRC INSTALLED IN THE PRODUCT FLOW AT THE FINAL HEATER OUTLET?	Yes No

Firr	Firm Name: FEI Number:	
25.	25. DOES THE TRC MEET THE REQUIREMENTS OF 113.40(g)(1)(i)(c)?	. Yes 🗌 No 🗌
26.	26. DESCRIBE HOW THE TEMPERATURE RECORDER DEVICE IS CHECKED FOR ACCURACY:	
ME	METERING (TIMING) PUMP – 113.40(g)(1)(i)(f)	
27.	27. DESCRIBE THE TYPE OF METERING PUMP:	
28.	28. IS THE PUMP LOCATED UPSTREAM FROM THE HOLD TUBE?	Yes 🗌 No 🗌
29.	29. THE PUMP ISFixed RateFixed Rate	Variable Speed ☐
30.	30. IS THERE A MEANS OF PREVENTING UNAUTHORIZED SPEED CHANGES?	. Yes 🗌 No 🗌
	OTHER COMMENTS:	
31.	31. IF THE PUMP IS OTHER THAN A POSITIVE DISPLACEMENT TYPE, WHAT EVIDENCE DOES THE THAT IT IS CAPABLE OF MAINTAINING THE REQUIRED RATE OF PRODUCT FLOW? DOES THE FIRM USE A FLOW METER TO RECORD OR REGULATE PRODUCT FLOW?	
32.	32. IF A FLOW METER IS USED, LIST THE FLOW METER MAKE AND MODEL NO. AND EXPLAIN HO	DW IT IS USED:
33.	33. WHAT PROCEDURES ARE USED TO VALIDATE THE FLOW RATE? (PUMP STROKES, CONTAIN PERIOD, TACHOMETER, ETC.):	NERS OR GAL/TIME
34.	34. HAS THE PROCESSOR DOCUMENTED THAT THE FLOW RATE AND FLOW CHARACTERISTICS OF THE PRODUCT ARE THE SAME AS THOSE ESTABLISHED BY THE PROCESS AUTHORITY? COMMENTS:	. Yes 🗌 No 🗌

Firr	m Name: FEI Number:
35.	IS THE PRODUCT FLOW RATE MONITORED AND DOCUMENTED BY THE PROCESSOR AS A ROUTINE PART OF THE SYSTEM OPERATION?
36.	HOW IS THE FLOW METER SYSTEM MAINTAINED?
PR(ODUCT HEATER
37.	IS THE PRODUCT HEATING SYSTEM: Steam Injection Steam Infusion Plate Heat Tubular or Scrapped Surface Heat Exchanger OHMIC Other Explain:
	COMMENTS:
PR0	ODUCT-TO-PRODUCT REGENERATOR – 113.40(g)(1)(i)(d)
38.	IF A PRODUCT-TO-PRODUCT REGENERATOR IS USED, IS IT EQUIPPED WITH A DIFFERENTIAL PRESSURE RECORDER-CONTROLLER TO ASSURE THAT THE PRESSURE OF THE STERILIZED PRODUCT IN THE REGENERATOR IS GREATER THAN THE PRESSURE OF ANY UNSTERILIZED PRODUCT IN THE REGENERATOR? Yes No Regenerator Not Used COMMENTS:
	IF YES, DOES THE DIFFERENTIAL PRESSURE RECORDER-CONTROLLER COMPLY WITH PART 113.40(g)(1)(i)(e)?
39.	HAS THE DIFFERENTIAL PRESSURE RECORDER-CONTROLLER BEEN TESTED FOR ACCURACY? – 113.40(g)(1)(i)(e)
	IF SO, LIST THE TEST DATE:
STE	RILIZER (PRODUCT HOLDING TUBE) – 113.40(g)(1)(i)(g)
40.	IS THE HOLD TUBE SLOPED UPWARD AT LEAST 0.25 IN./FT?
 41.	IF DISASSEMBLED FOR CLEANING, HOW DOES THE FIRM ASSURE AFTER REASSEMBLY THAT IT CONFORMS TO THE SCHEDULED PROCESS PARAMETERS?

Firm	m Name: FEI Number:
42.	DO THE HOLD TUBE DIAMETER AND LENGTH CONFORM TO THOSE LISTED IN THE FILED SCHEDULED PROCESS?
43.	IS IT DESIGNED SO THAT NO PORTION OF TUBE CAN BE HEATED BETWEEN PRODUCT INLET AND OUTLET? Yes No COMMENTS:
	EQUIPMENT DOWNSTREAM FROM THE HOLDING TUBE
FLC	DW DIVERSION SYSTEM – 13.40(g)(1)(i)(h)
44.	IS THE ASEPTIC PROCESSING SYSTEM EQUIPPED WITH A FLOW DIVERSION VALVE?
45.	IF PRESENT, IS IT INSTALLED IN THE PRODUCT PIPING LOCATED BETWEEN THE PRODUCT COOLER AND THE PRODUCT FILLER OR ASEPTIC SURGE TANK?
46.	IS IT DESIGNED TO AUTOMATICALLY DIVERT FLOW AWAY FROM THE FILLER OR ASEPTIC SURGE TANK?
47.	IS IT DESIGNED/INSTALLED WITH NECESSARY SENSORS AND ACTUATORS TO OPERATE WHENEVER THE STERILIZING TEMPERATURE IN THE HOLD TUBE OR DIFFERENTIAL PRESSURE IN THE PRODUCT REGENERATOR DROPS BELOW SPECIFIED LIMITS?
48.	IS IT DESIGNED/OPERATED IN ACCORDANCE WITH RECOMMENDATIONS OF AN ASEPTIC PROCESSING AND PACKAGING AUTHORITY?
49.	DESCRIBE THE FIRM'S METHOD FOR DIVERTING NON-STERILE PRODUCT AWAY FROM THE FILLER OR ASEPTIC SURGE TANK, INCLUDING ANY DOCUMENTATION FROM A PROCESSING AUTHORITY THAT MAY LIST SPECIFIC RECOMMENDATIONS FOR THE DESIGN AND OPERATION OF THE SYSTEM:
50.	DESCRIBE HOW FLOW DIVERSION INCIDENTS, INCLUDING CORRECTIVE ACTION AND DISPOSITION OF DIVERTED PRODUCT, ARE DOCUMENTED:

Fir	m Name: FEI Number:
STE	AM SEALS – 113.40(g)(1)(i)(i)
51.	ARE ROTATING OR RECIPROCATING SHAFTS AND VALVE STEMS EQUIPPED WITH STEAM SEALS OR OTHER EFFECTIVE BARRIERS AT POTENTIAL ACCESS POINTS?
52.	DOES THE FIRM MAINTAIN A RECORD SHOWING OBSERVATION OF THE STEAM SEALS FOR PROPER OPERATION?
ASE	EPTIC SURGE TANKS – 108.35(c)(2); 113.40(g)(1)(ii)
53.	DOES THE FIRM HAVE DOCUMENTATION FROM ITS PROCESS AUTHORITY SPECIFYING THE STERILIZATION PROCEDURE?
54.	ARE THEY ADEQUATELY VENTED OR PURGED OF AIR PRIOR TO STERILIZATION?
55.	ARE THEY STERILIZED WITH COMMENTS: Steam or Hot Water ?
56.	HAVE VENT/PURGE AND STERILIZATION PROCEDURES AND SCHEDULES BEEN ESTABLISHED BY A PROCESS AUTHORITY? Yes No COMMENTS:
<u> </u>	IS STERILE AIR OVER-PRESSURE MAINTAINED ON ASEPTIC SURGE TANKS?
58.	IS STERILE AIR PRODUCED BY Incineration Filtration Other ? Explain Other:
	COMMENTS:
59.	HOW DOES THE FIRM MONITOR STERILE AIR OR GAS OVER-PRESSURE AND ACHIEVEMENT OF COMMERCIAL STERILITY?
60.	WHAT TYPE OF FILTER SYSTEM IS USED TO STERILIZE THE AIR? Heppa (Box) Cartridge Sterilizing (Capable of being sterilized) Non-Sterilizing (For example, the box fi Iter is generally sterilized with a chemical or dry heat — steam or hot water potentially will affect its integrity and should be avoided; cartridge fi Iters are designed to be used either for liquids or air and can be sterilized many different ways, but moist heat and steam are preferred.) COMMENTS:

Firr	n Name: FEI Number:		
61.	IF A STERILE FILTER IS USED, WHAT ARE THE FILTER SPECIFICATIONS?		
62.	DOES THE FIRM HAVE EVIDENCE THAT WATER WILL OR WILL NOT AFFECT THE AIR FILTRATION PERFORMANCE OF THE FILTER? Yes No COMMENTS:		
63.	HOW OFTEN ARE FILTERS CHANGED?		
	IS THIS FREQUENCY CONSISTENT WITH THE MANUFACTURER OR PROCESS AUTHORITY RECOMMENDATIONS?		
64.	ARE ASEPTIC FILTER CHANGES DOCUMENTED ON PROCESSING RECORDS?		
65.	HAS THE PROCESS AUTHORITY, THE FILTER MANUFACTURER OR THE FIRM TAKEN INTO ACCOUNT THE EFFECT OF INCINERATED AIR OR STEAM ON THE INTEGRITY OF FILTERS? Yes No COMMENTS:		
66.	DOES THE FIRM HAVE A PROCEDURE FOR DETERMINING THE INTEGRITY OF FILTERS? Yes No IF YES, WHAT IS THE PROCEDURE AND IS IT CONSISTENT WITH THE PROCEDURES RECOMMENDED BY THE FILTER SUPPLIER AND/OR PROCESS AUTHORITY?		
	OTHER COMMENTS:		
67.	WHAT IS THE FIRM'S PROCEDURE FOR ENSURING THE STERILITY OF OVER-PRESSURE GASES AND ANY FILTERS USED TO FILTER THE STERILE GASES?		
68.	DO RECORDS INDICATE LOSS OF STERILITY IN THE SURGE TANK? – 113.40(g)(1)(ii)(d)		
	PROCESS CONTROL SYSTEMS		
69.	ARE PRODUCT HEATING AND STERILIZATION SYSTEMS CONTROLLED Manually or by Computer ? COMMENTS:		

Firr	n Name: FEI Number:
70.	WERE COMPUTERIZED CONTROL SYSTEMS VALIDATED UPON INSTALLATION TO ENSURE THAT THEY OPERATE AS DESIGNED?
	COMMENTS:
71.	ARE AUTOMATED SYSTEMS ROUTINELY CHALLENGED/CALIBRATED TO VERIFY THAT PRODUCTS RECEIVE THE SCHEDULED PROCESS?
	IF YES, WHEN WAS THE LAST CALIBRATION PERFORMED?COMMENTS:
72.	OBTAIN AS AN EXHIBIT A COPY OF THE MOST RECENT CHALLENGE/CALIBRATION RECORD FOR THE AUTOMATIC CONTROLS (INCLUDED SHOULD BE THE METHODOLOGY EMPLOYED, THE TESTING FREQUENCY, INDIVIDUALS WHO CONDUCTED THE TEST AND THE TEST RESULTS).
	COMMENTS:
73.	DOES THE FIRM HAVE DOCUMENTATION SHOWING THE VALIDATION OF STERILIZATION PROCEDURES?
	COMMENTS:
	ASEPTIC PROCESSING RECORDS – 113.40(g)(1)(ii)(e)
74.	ARE RECORDS MAINTAINED AT THE FOLLOWING POINTS AT START-UP AND WITH SUFFICIENT FREQUENCY TO ENSURE THAT THE PROCESS MEETS THE PARAMETERS OF THE SCHEDULED PROCESS?
	TEMPERATURE INDICATING DEVICE IN THE HOLDING TUBE OUTLET
	TEMPERATURE RECORDER IN THE HOLDING TUBE OUTLET
	TEMPERATURE RECORDER-CONTROLLER IN THE FINAL PRODUCT HEATER OUTLET
	DIFFERENTIAL PRESSURE RECORDER IF A PRODUCT REGENERATOR IS USED Yes \ No \ COMMENTS:
	PRODUCT FLOW RATE AS DETERMINED BY THE METERING PUMP OR AS DETERMINED BY FILLING AND CLOSING RATES. Yes No COMMENTS:
	ASEPTIC SURGE TANK STERILE AIR OVER-PRESSURE OR OTHER PROTECTIVE MEANS Yes No COMMENTS:
	PROPER PERFORMANCE OF STEAM SEALS OR SIMILAR DEVICES

Firm Name: FEI Number:	
	THE STERILIZATION OF PROCESSING EQUIPMENT OR "PRE-STERILIZATION" CYCLE
	PRODUCT STERILIZER OPERATION
STA	RT-UP – 113.40(g)(1)(ii)(a)
75.	BEFORE THE START OF ASEPTIC PROCESSING OPERATIONS, ARE THE PRODUCT STERILIZER AND ALL PRODUCT CONTACT SURFACES DOWNSTREAM BROUGHT TO A CONDITION OF COMMERCIAL STERILITY? – 113.40(g)(1)(ii)
	COMMENTS:
PRO	DDUCT-TO-PRODUCT REGENERATOR – 113.40(g)(1)(ii)(c)
76.	DO RECORDS INDICATE PRESSURE ON THE STERILE SIDE OF THE REGENERATOR LESS THAN 1 LB. PER SQ. INCH GREATER THAN PRESSURE ON THE NON-STERILE SIDE OF THE GENERATOR? Yes No
	IF YES, WAS THE PRODUCT PROPERLY HANDLED AS A PROCESS DEVIATION?
	IF NO, REPORT DETAILS UNDER THE CAPTION "PROCESS DEVIATIONS":
	OTHER COMMENTS:
77.	IS A PRODUCT-TO-PRODUCT REGENERATOR USED?
PRO	OPER SPEED OF METERING PUMP – 113.40(g)(1)(i)(f)
78.	WAS THE METERING PUMP OPERATING PROPERLY TO ASSURE NO MORE THAN THE MAXIMUM PRODUCT FLOW RATE (PROPER RESIDENCE TIME) IN THE HOLDING TUBE?
	IF NO, WAS THE PRODUCT PROPERLY HANDLED AS A PROCESS DEVIATION?
	IF NO, REPORT DETAILS UNDER THE CAPTION "PROCESS DEVIATIONS":
	OTHER COMMENTS:
TEN	IPERATURE DROP IN PRODUCT STERILIZING HOLD TUBE – 113.40(g)(1)(ii)
79.	WERE THERE ANY INCIDENCES OF TEMPERATURE DROPS IN THE HOLD TUBE BELOW THAT SPECIFIED IN THE SCHEDULED PROCESS?
	IF YES, WAS THE PRODUCT PROPERLY HANDLED AS A PROCESS DEVIATION? Yes No IF NO, REPORT DETAILS UNDER THE CAPTION "PROCESS DEVIATIONS":
	OTHER COMMENTS:

Firr	m Name: FEI Number:			
BAC	BACK-PRESSURE VALVES/ORIFICES			
80.	WHERE ARE BACK-PRESSURE VALVES/ORIFICES LOCATED IN THE ASEPTIC PROCESSING SYSTEM?			
<u> </u>	HOW DOES THE FIRM MONITOR THE PROPER FUNCTIONING OF BACK-PRESSURE VALVES?			
 82.	WERE BACK-PRESSURE VALVES OPERATING PROPERLY DURING THE INSPECTION?			
	OTHER COMMENTS:			
LOS	SS OF STERILE AIR PRESSURE OR OTHER PROTECTIVE LEVELS IN ASEPTIC SURGE TANKS – 113.40(g)(1)(i	i)(c)		
83.	WERE THERE ANY INCIDENCES OF LOSS OF COMMERCIAL STERILITY IN ASEPTIC SURGE TANKS BECAUSE OF LOSS OF STERILE AIR OVER-PRESSURE OR OTHER PROTECTIVE LEVELS? Yes No			
	IF YES, WAS THE PRODUCT PROPERLY HANDLED AS A PROCESS DEVIATION?			
	IF NO, REPORT DETAILS UNDER "PROCESS DEVIATIONS":			
	OTHER COMMENTS:			
REC	CORDING DEVICE – 113.40(2)(i)(a)			
84.	ARE THE CONTAINER AND PACKAGING CLOSURE STERILIZATION SYSTEM AND PRODUCT FILLING AND CLOSING SYSTEM INSTRUMENTED TO DEMONSTRATE THAT THE REQUIRED STERILIZATION IS BEING ACCOMPLISHED CONTINUOUSLY?			
—— 85.	IS THERE ANY DOCUMENTATION SHOWING THAT COMMERCIALLY STERILE CONDITIONS ARE ACHIEVED AND MAINTAINED?			
	COMMENTS:			
86.	IS THERE ANY DOCUMENTATION SHOWING THE VALIDATION OF STERILIZING CONDITIONS?			
	COMMENTS:			

Firn	n Name: FEI Number:
	CONTAINER STERILIZING, FILLING AND CLOSING OPERATIONS – 113.40(g)(2)
EQL	JIPMENT
87.	DO THE FIRM'S PROCEDURES ENSURE THAT THE CONTAINER AND CLOSURE STERILIZATION SYSTEMS AND THE PRODUCT FILLING AND CLOSING SYSTEMS ARE BROUGHT TO A CONDITION OF COMMERCIAL STERILITY BEFORE PACKAGING OPERATIONS BEGIN? – 113.40(g)(2)(ii)(a) Yes No COMMENTS:
88.	ARE THE CONTAINER AND CLOSURE STERILIZATION SYSTEMS AND PRODUCT FILLING AND CLOSING SYSTEMS INSTRUMENTED TO DEMONSTRATE THAT THE REQUIRED STERILIZATION IS BEING ACCOMPLISHED CONTINUOUSLY? – 113(g)(2)(i)(a)
89.	ARE AUTOMATIC RECORDING DEVICES USED TO RECORD THE STERILIZATION MEDIA FLOW RATES, TEMPERATURE, CONCENTRATION OR OTHER FACTORS? – 113.40(g)(2)(i)(a)
LOS	SS OF STERILITY – 113.40(2)(ii)(b)
90.	IS THERE A SYSTEM THAT STOPS PACKAGING OPERATIONS OR ALTERNATIVELY SEGREGATES ANY PRODUCT PACKAGED WHEN PACKAGING CONDITIONS FALL BELOW SCHEDULED PROCESSES?
91.	IN THE EVENT THAT STERILITY IS LOST IN THE PACKAGING SYSTEM, IS THE SYSTEM RETURNED TO A CONDITION OF COMMERCIAL STERILITY PRIOR TO RESUMING PACKAGING?
REC	CORDS – 113.40(g)(2)(ii)(c)
92.	ARE OBSERVATIONS AND MEASUREMENTS OF OPERATING CONDITIONS MADE AND RECORDED AT INTERVALS OF SUFFICIENT FREQUENCY TO ENSURE THAT COMMERCIAL STERILITY OF THE FOOD PRODUCT IS BEING ACHIEVED, INCLUDING RECORDS OF:
	STERILIZATION MEDIA FLOW RATESYes No N/A COMMENTS:
	TEMPERATURES
	CONTAINER AND CLOSURE FLOW RATES
	STERILIZATION CONDITIONS FOR BATCH SYSTEMS

Firm	irm Name:	FEI Number:
MET	METAL CONTAINERS AND LIDS	
93.	3. WHAT TYPE OF FILLING/PACKAGING SYSTEM IS BEING USED BY THE FIRM (FOR EXAMPLE, METAL CONTAINERS AND CLOSURES STERILIZED WITH SUPERHEAT AN ASEPTIC CHAMBER)	
94.	I. DOES THE FIRM FOLLOW ITS FILED SCHEDULED PROCESS FOR BRINGING AND LID STERILIZATION EQUIPMENT TO A CONDITION OF COMMERCIAL ST COMMENTS:	
95.	5. DETERMINE AND DOCUMENT THE NUMBER AND TYPE OF TEMPERATURE USED TO DEMONSTRATE THAT THE REQUIRED STERILIZATION IS ACCOME	
96.	6. ARE THESE THERMOCOUPLE SENSORS LOCATED IN THE MOST DIFFICULT TO STERILIZE AREA?	
97.	7. IS THE POSITION OF THE TEMPERATURE SENSORS AND EQUIPMENT THE AS THAT FILED WITH FDA?	
98.	B. LIST THE CRITICAL FACTORS BEING MONITORED DURING THE STERILIZAT FILLING AND CLOSING EQUIPMENT (E.G., TEMPERATURE, STERILIZATION	
99.	9. IS THE MONITORING DATA FOR THESE CRITICAL FACTORS CONTINUOUSL AND ACCURATELY RECORDED? COMMENTS:	
100.	DO. DO INDICATING THERMOMETERS AGREE WITH RECORDING THERMOMETIC COMMENTS:	ERS?Yes No
101.	01. ARE TEMPERATURE INDICATING AND RECORDING DEVICES PROPERLY CA IF YES, WHAT ARE THE CALIBRATION METHOD AND FREQUENCY?	ALIBRATED? Yes No
102.	D2. IS TID CALIBRATION ACCOMPLISHED AT PROCESSING TEMPERATURE? COMMENTS:	Yes No

Firm	n Name:	FEI Number:
103.	IF COLD STERILE WATER IS DIRECTED AGAINST THE BOTTOM OF CONTATHE LIDS PRIOR TO CLOSING), WHAT ARE THE FIRM'S CONTROLS TO EN A CONTINUAL BASIS?	
104.	DESCRIBE THE FIRM'S CONTROLS FOR ENSURING THE PROPER RESIDE AND LIDS IN THE STERILIZING MEDIUM: (FOR EXAMPLE, CONTAINERS/CLOSURE FLOW RATE CHECKED WITH A CALIBRATEL	
105.	WHAT ARE THE METHOD AND FREQUENCY FOR TIMING DEVICE CALIBRA	TION?
106.	WHAT IS THE METHOD OF PREVENTING UNAUTHORIZED CHANGES IN CODURING STERILIZATION?	ONTAINER/LID FLOW RATE
107.	IF AN AUTOMATIC DEVICE IS USED TO MONITOR CONTAINER/CLOSURE F ASSURE THE ACCURACY OF THESE DEVICES?	LOW RATES, HOW DOES THE FIRM
108.	HOW DOES THE FIRM ASSURE THAT CONTAINERS AND CLOSURES ARE ENTERING THE STEAM CHAMBERS?	CLEAN AND DRY PRIOR TO
GLA	SS, PLASTIC AND PAPERBOARD CONTAINERS	
109.	WHAT TYPE OF FILLING/PACKAGING SYSTEM IS BEING USED BY THE FIR	M?
	(FOR EXAMPLE, TETRAPAK PAPERBOARD FORM/FILL/SEAL USING HYDROGEN PER FORMED MULTI-LAYERED PLASTIC CUPS STERILIZED, FILLED AND SEALED IN AN A PEROXIDE AND HEAT AS STERILANTS; GLASS BOTTLES FILLED AND SEALED IN AN STERILANT; PLASTIC CUPS BLOW MOLDED/FILLED, SEALED AND STERILIZED IN THE AND MODEL NO. OF THE ASEPTIC FILLING MACHINE.)	SEPTIC CHAMBER USING HYDROGEN ASEPTIC CHAMBER USING STEAM AS A
110.	HOW IS HEAT APPLIED FOR CONTAINER STERILIZATION?	
111.	DESCRIBE THE FIRM'S PROCEDURE FOR MONITORING ALL CRITICAL FAC THE SCHEDULED PROCESS:	CTORS FOR
112.	ARE SENSORS FOR MONITORING THE ABOVE CRITICAL FACTORS PROPI PROVIDE ASSURANCE THAT THE FACTORS ARE MONITORED AT THEIR O OR WEAKEST POINT?	COLDEST

Firm	Firm Name:	FEI Number:
113.	13. IF CHEMICAL STERILANTS ARE SPRAYED IN ASEPTIC (CHAMBERS, ARE SPRAY VOLUMES CONTROLLED BY:
	Nozzles ☐ Peristaltic Pumps ☐	
	Other	
	COMMENTS:	
114.	14. WHAT IS THE FIRM'S PROCEDURE FOR ASSURING THE MICROBIOLOGICAL QUALITY?	USE OF PACKAGING MATERIALS OF HIGH
115.	15. ARE THE FILLING/PACKAGING MACHINES DESIGNED T	O AUTOMATICALLY SHUT DOWN
	IN THE EVENT OF A FAILURE TO MEET SPECIFIED CRIT	TICAL FACTORS? Yes No
	COMMENTS:	
116.	16. WHO CHECKS THE AUTOMATIC CONTROLS AND HOW	FREQUENTLY?
117.	17. HOW DOES THE FIRM CHALLENGE THE AUTOMATIC CO	DNTROL SYSTEM?
118.	 UNDER WHAT CIRCUMSTANCES WOULD AN AUTOMAT MODE TO PACK PRODUCT AND WHO WOULD HAVE TH 	
119.	19. ARE THERE ANY MANUAL CONTROLS THAT ARE CRITICA	AL TO THE SCHEDULED PROCESS? Yes No
	IF SO, HOW WOULD A PROCESS DEVIATION BE DETEC	
	OTHER COMMENTS.	
	OTHER COMMENTS:	
120.	20. DESCRIBE THE FIRM'S PROCEDURE FOR TESTING HYI MATERIAL:	DROGEN PEROXIDE RESIDUAL ON PACKAGING
121.	21. IS THE HYDROGEN PEROXIDE RESIDUAL LEVEL (FROM	,
	WITH PART 178.1005(d)?	Yes No
	COMMENTS:	
 :	THE DWO FORM FILLED OF ALED DUALITY OF ALED	TOO DDE OTEDU IZED DV UEAT OD OO EVTEUSION
	THERMOFORM-FILLED-SEALED PLASTIC CONTAINE	
122.	22. WHAT TYPE OF FILLING/PACKAGING SYSTEM IS BEING	USED BY THE FIRM?

(FOR EXAMPLE, MULTI-LAYERED PLASTIC WEB IS DIPPED IN HYDROGEN PEROXIDE BATH AND THEN HEATED AND FORMED INTO CUPS/FILLED/SEALED WITH FLEXIBLE LIDSTOCK IN AN ASEPTIC CHAMBER — BOTH BODY AND LID STERILIZED BY HYDROGEN PEROXIDE AND HEAT BEFORE FILLING.) INCLUDE THE MANUFACTURER AND MODEL NO. OF THE ASEPTIC FILLING MACHINE.

Firm	Name:	FEI Number:
123.	DESCRIBE THE FIRM'S PROCEDURES FOR MONITOR PROCESS:	ORING ALL FACTORS CRITICAL TO THE SCHEDULED
124.	FOR STERILE AIR THAT PROVIDES OVERRIDING A OPERATIONS, HOW OFTEN ARE THE AIR FILTERS COMPLY WITH THE FREQUENCY DELINEATED IN COMMENTS:	CHANGED AND DOES THIS FREQUENCY
125.	IS THE CHANGE OF AIR FILTERS DOCUMENTED? . COMMENTS:	Yes No No
126.		OSTOCK DURING F/F/S OPERATIONS WHERE THE I INNER STERILE LAYER, HOW DOES THE FIRM ENSURE THE PACKAGING MATERIAL IS RECEIVED AND USED?
127.	COMMERCIAL STERILITY AND THAT EXPOSURE O	NG THAT EQUIPMENT IS BROUGHT TO A CONDITION OF F THE STERILE INNER LAYER TO THE STERILE ZONE AT THE SPERFORMED IN SUCH A MANNER AS TO MAINTAIN THE UND THE STERILE PACKAGING AREA:
128.	FITMENT, MEDIA USED TO STERILIZE THE FITMEN	THE MANUFACTURER, MODEL NO., OPERATION OF THE T AND HOW THE STERILIZATION PROCESS AND ALL ED PROCESS ARE CONTROLLED AND MONITORED:
129.	HOW IS THE MULTI-LAYERED PLASTIC CONTAINEI (FOR EXAMPLE, THE BAG IS PRE-STERILIZED FOR THE SE	R STERILIZED? JPPLIER BY AN OUTSIDE CONTRACTOR USING GAMMA RADIATION.)
130.	HOW DOES THE FIRM ASSURE THAT STERILE PAC AND MAINTAINED STERILE?	CKAGING MATERIALS ARE RECEIVED
131.	IF CHEMICALS ARE USED TO STERILIZE THE FITM CONCENTRATION MONITORED?	ENT, HOW IS THE CHEMICAL
132.	DESCRIBE THE FIRM'S PROCEDURE FOR ENSURII COMMERCIAL STERILITY PRIOR TO THE START O	NG THAT EQUIPMENT IS BROUGHT TO A CONDITION OF FILLING:

Firn	n Name: FEI Number:
	INCUBATION – 113.40(3)
133.	EXPLAIN THE INCUBATION PROCEDURES USED BY THE FIRM, INCLUDING THE NUMBER OF SAMPLES, INCUBATION TIME AND TEMPERATURES, AND THE FOLLOW-UP PROCEDURES FOR ANY POSITIVE RESULTS:
	PROCESS DEVIATIONS – PART 113.89
134.	ARE PROCESS DEVIATIONS MAINTAINED IN A SEPARATE FILE OR LOG?
135.	REVIEW RECORDS DOCUMENTING PROCESS DEVIATIONS (INCLUDING PROCESS DEVIATION FILE): COMMENTS:
136.	WHAT ARE THE FIRM'S PROCEDURES FOR HANDLING PROCESS DEVIATIONS? (FOR EXAMPLE, A DROP IN PRODUCT TEMPERATURE IN THE HOLDING TUBE OR OF DIFFERENTIAL PRESSURE IN THE PRODUCT-TO-PRODUCT REGENERATOR BELOW SPECIFIED LIMITS.)
137.	WERE ALL PROCESS DEVIATIONS HANDLED IN ACCORDANCE WITH THE FIRM'S PROCEDURES AND PART 113.89?
	CONTAINER CLOSURE EVALUATION – Part 113.60(a)(1) and (3)
138.	DO THE FIRM'S CONTAINER INTEGRITY EVALUATION PROCEDURES COMPLY WITH THE VISUAL AND TEARDOWN REQUIREMENTS OF PART 113.60(a)(1) AND (3)?
139.	DESCRIBE THE FIRM'S CONTAINERS AND ITS PROCEDURES FOR ENSURING CONTAINER INTEGRITY:
	(INCLUDE THE FIRM'S HANDLING, SAMPLING AND TESTING OF INCOMING CONTAINERS AND PACKAGING MATERIALS, AND ITS VISUAL AND TEARDOWN TEST PROCEDURES FOR FINISHED PRODUCT CONTAINERS TO ASSURE CONTAINER INTEGRITY.)
	POST-PROCESS CONTAINER HANDLING
140	ARE CONTAINERS PROPERLY HANDLED DURING THEIR CONVEYANCE FROM FILLING
140.	AND PROCESSING AREAS OF THE PLANT TO WAREHOUSE LABELING AND STORAGE AREAS TO ASSURE MAINTENANCE OF PACKAGE AND SEAL INTEGRITY? Yes No
	COMMENTS:
141.	DESCRIBE THE FIRM'S POST-PROCESS HANDLING PROCEDURES:

Firn	n Name: FEI Number:
	TRAINING - Part 113.10
142.	HAS THE FIRM MET THE REQUIREMENTS OF PART 113.10 FOR ATTENDANCE AT BETTER PROCESS CONTROL SCHOOL?
143.	DESCRIBE THE FIRM'S TRAINING PROGRAM FOR OPERATORS OF PRODUCT AND PACKAGE STERILIZATION SYSTEMS: