

## Sous Vide and Cook/Chill Under Chapter 3-502.12 Hazard Analysis of Critical Control Points (HACCP) Checklist for Operators

*When thinking about your HACCP plan, a good place to start is by writing out your entire process as if you were explaining it to a new employee and the plan was all they had to make your product correctly from start to finish. Which steps are critical to making a safe process (critical control points and critical limits)? What should they do if something goes wrong at one of these steps (corrective actions)? How will you know they did it correctly (logs)? And who will ensure they did it correctly (verification)?*

*Your HACCP plan must be approved by your Local Public Health Authority before you start vacuum packaging products in your facility.*

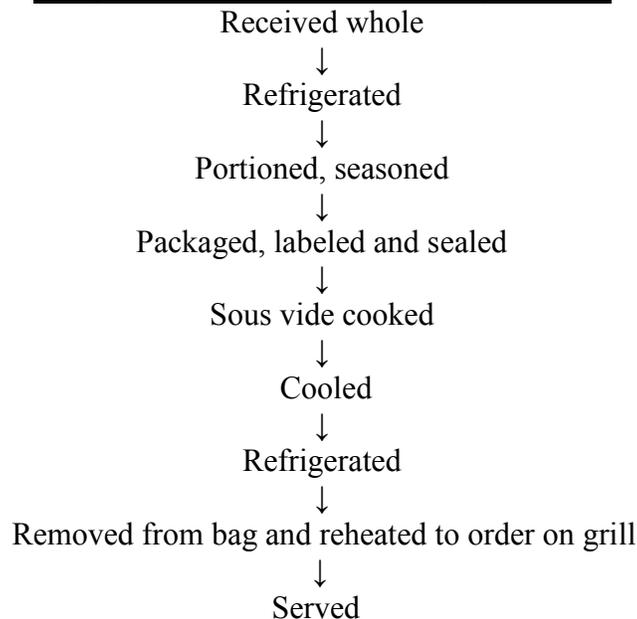
**Please include:**

- Name of each food product(s)
- A list of all ingredients
- Explanation of designated work area for special processing
- Letter from the manufacturer that the bags used are approved for sous vide/cook chill and are heat stable to 212F
- Information on how the product will be tracked (batch number) until used in the facility.
- A copy of the label that will be used. Waterproof labels are recommended.
- Specs for continuous, electronic monitoring equipment for refrigeration
- An accurate, step-by-step description of how the food is prepared, held, sous vide cooked, cooled, finished, etc. (the food flow) for each product.
- Appropriate Standard Operating Procedures (SOPs) including, but not limited to; procedures minimizing bare hand contact with ready-to-eat foods, handwashing protocols and how cross contamination between raw and ready-to-eat foods will be prevented. Also include a list of equipment and materials used in the process. Describe how equipment is cleaned and sanitized. Explain how often in the process equipment is cleaned (before beginning, between types of foods, etc.). Outline how new staff will be trained on proper procedure for your process. There are templates available at: <http://sop.nfsmi.org/HACCPBasedSOPs.php>
- Identification of the most important food safety control(s) for each process. Each of these important food safety controls is called a Critical Control Point (CCP). CCPs for simple sous vide and cook/chill operations usually include; cold holding, cooling, final cook temperatures and time held under vacuum. More complicated processes will have more CCPs.

**For Each Critical Control Point:**

- Identify acceptable levels. These levels are called Critical Limits (CLs). Critical Limits must be things you can measure. Examples are refrigeration temperature (41F or less), time under vacuum (14 days or less), etc...
- Describe how the CLs will be measured. Include who will measure, how they will measure and when they will measure.
- Who will verify that the measurements and procedures are correctly documented and followed? How often will this be done?
- What are the actions taken by the person in charge if the critical limits for each critical control point are not met? Corrective actions need to be specific to the critical limit. For example, what will you do when the refrigerated product is above 41F? What if product drops below 135F before bag is sealed?
- Include samples of the logs that will be used to keep track of the measurements, verify the procedures are correct, and record corrective actions when critical limits are not met. A single form could be used for all.
- Provide a food safety training program that shows employees and supervisors know how to perform the steps in this plan, how to use necessary equipment and how to implement corrective actions.
- Provide a refrigeration temperature log to assure your refrigeration units can hold at 41F or less. Cooling verification charts and final cook temperature verification charts will also be required.
- Include a statement that an approved, signed copy of the plan will be kept on the premises for review by the regulatory authority. Also a statement that the regulatory authority will be informed in advance of any significant changes in the process that may affect the accuracy or effectiveness of the plan.

**Sample Sous Vide Food Flow – Spare Ribs**



***This checklist must be complete before submission to LPHA***