

STANDARD OPERATING PROCEDURE (SOP) FOR COOLING Food Requiring Time and Temperature Control for Safety (TCS)

(Sample SOP)

PURPOSE: To prevent foodborne illness by ensuring that all TCS foods are cooled properly.

SCOPE: This procedure applies to foodservice employees who prepare or cook food.

KEY WORDS: Cross-Contamination, Temperature, Cooling

1. **CROSS-CONTAMINATION** means the passing of bacteria, microorganisms, or other harmful substances indirectly from one surface to another through improper or unsanitary **EQUIPMENT**, procedures, or products.
2. **TEMPERATURE** means the amount of heat or cold measured on a thermometer. This SOP measures temperature in degrees Fahrenheit (°F).
3. **COOLING** means decreasing the temperature of the food product.

INSTRUCTIONS:

1. Train foodservice employees on using the procedures in this SOP. Refer to the Using and Calibrating Thermometers SOP.
2. Follow Wyoming Food Safety Rule.
3. Modify menus, production schedules, and staff work hours to allow for implementation of proper cooling procedures.
4. Prepare and cool food in small batches when practical.
5. Chill food rapidly using an appropriate cooling method:
 - Place food in shallow containers no more than 4 inches deep and uncovered on the top shelf in the back of the walk-in cooler. Dense product, such as refried beans, may require a more shallow product depth.
 - Separate food into smaller or thinner portions.
 - Use a quick-chill unit such as a blast chiller.
 - Stir the food in a container placed in an ice water bath. Make sure the level of ice water is at least as high as the product.
 - Use containers that facilitate heat transfer (avoid using plastic containers).
 - Add ice as an ingredient.
 - Pre-chill ingredients and containers used for making bulk items such as salads.
 - Other methods as approved by the Wyoming Department of Agriculture
6. Chill cooked, hot food from:
 - 135 °F to 70 °F within 2 hours. Take corrective action immediately if food is not chilled from 135 °F to 70 °F within 2 hours.
 - 70 °F to 41 °F or below within 4 hours. (The total cooling process from 135 °F to 41 °F may not exceed 6 hours.) Take corrective action immediately if food is not chilled from 135 °F to 41 °F within the 6 hour cooling process.
7. Chill TCS foods that will be cooked before being served and prepared with ambient temperature ingredients from 70 °F to 41 °F or below within 4 hours. Take corrective action immediately if ready-to-eat food is not chilled from 70 °F to 41 °F within 4 hours.

SOP for TCS Foods, continued

(Sample SOP)

8. TCS foods that are ready to eat must be prepared from chilled ingredients.

MONITORING:

1. Use a clean, sanitized, and calibrated probe thermometer to measure the internal temperature of the food during the cooling process.
2. Document the final cook temperature of the product then monitor temperatures of products every hour throughout the cooling process (time limits for cooling does not start until food reaches 135°F) by inserting a probe thermometer into the center of the food and at various locations in the product.

CORRECTIVE ACTION:

1. Retrain any foodservice employee found not following the procedures in this SOP.
2. Reheat cooked, hot food to 165 °F for 15 seconds and start the cooling process again using a different cooling method when the food is:
 - Above 70 °F and 2 hours or less into the cooling process; and
 - Above 41 °F and 6 hours or less into the cooling process.
3. Discard cooked, hot food immediately when the food is:
 - Above 70 °F and more than 2 hours into the cooling process; or
 - Above 41 °F and more than 6 hours into the cooling process.
4. Use a different cooling method for prepared TCS foods when the food is above 41 °F and less than 4 hours into the cooling process.
5. Discard prepared TCS foods when the food is above 41 °F and more than 4 hours into the cooling process.

VERIFICATION AND RECORD KEEPING:

Foodservice employees will record temperatures and corrective actions taken on the Cooling Temperature Log. Foodservice employees will record if there are no foods cooled on any working day by indicating “No Foods Cooled” on the Cooling Temperature Log. The foodservice manager will verify that foodservice employees are cooling food properly by visually monitoring foodservice employees during the shift and reviewing, initialing, and dating the temperature log each working day. The Cooling Temperature Logs are to be kept on file for a minimum of 6 months.

DATE IMPLEMENTED: _____ **BY:** _____

DATE REVIEWED: _____ **BY:** _____

DATE REVISED: _____ **BY:** _____