

246 North High Street Columbus, Ohio 43215

614/466-3543 www.odh.ohio.gov

John R. Kasich/Governor

Richard Hodges/Director of Health

# Guidance Document for Interruption of Electrical Service in Food Service Operations

#### I. Assessment

In the event of an emergency involving electrical service interruption, appropriate food service operations responses must be taken after an assessment of multiple factors including but not limited to:

- The complexity and scope of the food service operation.
- The duration of the emergency event.
- The impact on other critical infrastructure and services (example: refrigeration).
- The availability of alternative procedures that can be used to meet the Ohio Uniform Food Safety Code.

### II. Response

The following are temporary alternative procedures that may be considered to address specific affected food service operations during an extended interruption of electrical service:

- Affected Operations:
  - o Refrigeration: equipment inoperable
    - Alternative procedures:
      - Note the time the power outage begins.
      - Monitor and record food temperatures every two hours (see food lists below for disposition of Time/Temperature Controlled for Safety (TCS) foods).
      - Keep refrigeration doors closed.
      - Pack TCS food in commercially made ice or dry ice (use precautions for using dry ice by using insulated gloves and venting the area before entering).
      - Relocate products in cases to walk-in boxes, freezers, or refrigerated trucks if safe temperatures cannot be maintained in the cases.
      - DO not put hot food in refrigeration equipment.

## **REFRIGERATED FOODS**

When to save and when to discard:

toop					
FOOD	Held above 40 ºF for over 2 hours	FOOD	Held above 40 ºF for over 2 hours		
MEAT DOLLITRY	Discard	Froch fruits coconut	Safe		
MEAT, POULTRY,	Discard	Fresh fruits, coconut,	Sale		
SEAFOOD Fresh or		raisins, dried fruits,			
leftover meat, poultry,		candied fruits, dates			
fish, or seafood					
Thawing meat or poultry	Discard	SAUCES, SPREADS, JAMS	Discard if above 50 °F for		
		Opened mayonnaise,	over 8 hrs.		
		tartar sauce, horseradish			
Meat, tuna, shrimp,	Discard	Peanut butter	Safe		
chicken or egg salad					
Gravy, stuffing	Discard	White wine	Discard		
		Worcestershire sauce			
Lunchmeats, hot dogs,	Discard	Fish sauces (oyster	Discard		
bacon, sausage, dried		sauce)			
beef		,			
Pizza – with any topping	Discard	Hoisin sauce	Discard		
Canned hams labeled	Discard	Opened vinegar-based	Safe		
"Keep Refrigerated"		dressings			
Canned meats, opened	Discard	Opened creamy-based	Discard		
Carried meats, opened	Discara	dressings	Discard		
CHEESE Soft Cheeses:	Discard	Spaghetti sauce, opened	Discard		
blue/bleu, Roquefort,	Discard	jar	Discard		
brie, Camembert, colby,		Jai			
cottage, cream, Edam,					
Monterey Jack, ricotta,					
mozzarella, Muenster,					
Neufchatel					
Hard Cheeses: cheddar,	Safe	BREAD, CAKES,	Safe		
Swiss, Parmesan,		COOKIES, PASTA Bread,			
provolone, Romano		rolls, cakes, muffins,			
		quick breads			
Processed Cheeses	Safe	Refrigerator biscuits,	Discard		
		rolls, cookie dough			
Shredded Cheeses	Discard	Cooked pasta, spaghetti	Discard		
Low-fat Cheeses	Discard	Pasta salads with	Discard		
		mayonnaise or			
		vinaigrette			
Grated Parmesan,	Safe	Fresh pasta	Discard		
Romano, or combination		· ·			
(in can or jar)					
DAIRY Milk, cream, sour	Discard	Cheesecake	Discard		
cream, buttermilk,	_ 13001.0	J. C.	_ 10001 0		
evaporated milk, yogurt					
Butter, margarine	Safe	Breakfast foods –	Safe		
butter, marganne	Jaic		Jaie		
Daby formula arrang	Discord	waffles, pancakes, bagels	Discord		
Baby formula, opened	Discard	PIES, PASTRY Pastries,	Discard		
		cream filled			

EGGS Fresh eggs, hard- cooked in shell, egg dishes, egg products	Discard	Pies – custard, cheese filled, or chiffon	Discard
Custards and puddings	Discard	Pies, fruit	Safe
CASSEROLES, SOUPS, STEWS	Discard	<b>VEGETABLES</b> Fresh mushrooms, herbs, spices	Safe
FRUITS Fresh fruits, cut	Discard	Greens, pre-cut, pre- washed, packaged	Discard
Fruit juices, opened	Safe	Vegetables, raw	Safe
Canned fruits, opened	Safe	Vegetables, cooked	Discard
		Vegetable juice, opened	Discard
		Baked potatoes	Discard
		Commercial garlic in oil	Discard
		Potato Salad	Discard

## **FROZEN FOODS**

When to save and when to discard:

FOOD	Still contains ice crystals and feels	Thawed. Held above 40 °F for over
	as cold as if refrigerated	2 hours
MEAT, POULTRY, SEAFOOD Beef,	Refreeze	Discard
veal, lamb, pork, and ground meats		
Poultry and ground poultry	Refreeze	Discard
Variety meats (liver, kidney, heart,	Refreeze	Discard
chitterlings)		
Casseroles, stews, soups	Refreeze	Discard
Fish, shellfish, breaded seafood	Refreeze. However, there will be	Discard
products	some texture and flavor loss.	
DAIRY Milk	Refreeze. May lose some texture.	Discard
Eggs (out of shell) and egg products	Refreeze	Discard
Ice cream, frozen yogurt	Discard	Discard
Cheese (soft and semi-soft)	Refreeze. May lose some texture.	Discard
Hard cheeses	Refreeze	Refreeze
Shredded cheeses	Refreeze	Discard
Casseroles containing milk, cream,	Refreeze	Discard
eggs, soft cheeses		
Cheesecake	Refreeze	Discard
FRUITS Juices	Refreeze	Refreeze. Discard if mold, yeasty
		smell or sliminess develops.
Home or commercially packaged	Refreeze. Will change in texture and	Refreeze. Discard if mold, yeasty
	flavor.	smell or sliminess develops.
VEGETABLES Juices	Refreeze	Discard after held above 40 °F for 6
		hours.
Home or commercially packaged or	Refreeze. May suffer texture and	Discard after held above 40 ºF for 6
blanched	flavor loss.	hours.
BREADS, PASTRIES Breads, rolls,	Refreeze	Refreeze
muffins, cakes (without custard		
fillings)		
Cakes, pies, pastries with custard or	Refreeze	Discard
cheese filling		
Pie crusts, commercial and	Refreeze. Some quality loss may	Refreeze. Quality loss is
homemade bread dough	occur.	considerable
OTHER Casseroles – pasta, rice	Refreeze	Discard
based		
Flour, cornmeal, nuts	Refreeze	Refreeze
Breakfast items – waffles, pancakes,	Refreeze	Refreeze
bagels		
Frozen meal, entree, specialty items	Refreeze	Discard
(pizza, sausage and biscuit, meat pie,		
convenience foods)		

- o Ventilation: No mechanical ventilation provided to remove cooking smoke, steam, grease laden air, etc.
  - Alternative Procedures:
    - Discontinue all cooking operations.
- Lighting: Lack of artificial illumination for personal safety, food preparation, food handling, cleaning equipment/utensils, cleaning the premises.
  - Alternative Procedures:
    - Limit operation to daylight hours. Restrict operations to those that can be safely conducted in available natural light.
    - Provide lighting using other power sources (i.e. battery operated lantern, flashlight, etc. if fire codes allow). Limit operation to those procedures that can be safely conducted using alternative lighting.
- o Cooking Equipment: Cooking equipment is no longer functional.
  - Alternative Procedures:
    - Evaluate time and temperature to determine if foods should be discarded.
    - Discard raw animal/TCS foods that were in the cooking or re-heating process but did not reach a safe final temperature.
    - Discontinue cooking operations.
- Hot Food Holding: Equipment for holding TCS food hot is no longer operational.
  - Alternative Procedures:
    - Note the time the power outage begins.
    - Discard all TCS food after 4 hours from being removed from temperature control (below 135°)
    - Use an alternate heat source such as "canned heat" and monitor temperatures hourly.
      Note: If power returns within 4 hours, reheat food to 165° F.
- Dishwashing Equipment: Equipment for cleaning and sanitizing utensils and tableware is no longer operational.
  - Alternative Procedures:
    - Use the three compartment sink if hot water is still available.
    - Use single service tableware.
    - Discontinue operations that generate soiled utensils/tableware.
- o Water: The well serving the establishment no longer produces water.
  - Alternative Procedures:
    - See "Interruption of Water Service" procedures.
- Sewage Disposal: Sewage ejector pump(s), no longer functional.
  - Alternative Procedures:
    - Discontinue all operations. Contact the local health department for possible options.
- o Electric Hot Water Heater: No hot water.
  - Alternative Procedures:
    - Heat water on a gas cooking appliance.

#### III. Recovery

Recovery involves the necessary steps for re-opening and returning to a normal safe operation. A food service operation that was ordered or otherwise required to cease operations may not re-open until authorization has been granted by the local health district.

If the location was vacated during the power outage, upon return the storage equipment may be fully functioning and the food may be at proper temperature. If the duration of the power outage and the highest temperature of the food cannot be verified then all TCS food must be discarded.

### Key areas to consider for returning to normal operation when power is restored:

- Electricity, potable water, and/or gas services have been fully restored.
- All circuit breakers have been properly re-set as needed.
- All equipment and facilities are operating properly including: lighting, refrigeration (back to operating temperature of 41° F and below), hot holding, ventilation, water supply, sewage pumps, hot water heaters, toilet facilities, ware washing machines and hand washing facilities.
- Food contact surfaces, equipment and utensils cleaned and sanitized prior to resuming food-handling operations. This includes ice bins in ice machines where ice has melted during the interruption.
- Flush all water lines, change filters, etc.

**Disposal of Food**: Small volumes of food can be denatured (such as with bleach, a detergent or other cleaning product to render it unusable) or alternatively destroyed and placed in an outside refuse bin for removal. To discard large volumes of food, the firm should contact a disposal company for immediate transportation to a licensed landfill.

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