

# Baystate Refrigerated Services Emergency Plan Summary

## 100 Baystate Rd., Baystate, MA

This plan summary must be accurate and thorough and should be completed by staff directly responsible for emergency response. Please do not leave any questions blank. **Immediately call MassDEP's Emergency Response line at 1-888-304-1133 and your local fire department to report a spill of oil or hazardous material or other environmental emergency.**

### Facility Emergency Contacts

(List 2 contacts per shift; add additional rows as needed)

| Name            | Phone (Cell)   | Phone (Home)   | Home Address                    |
|-----------------|----------------|----------------|---------------------------------|
| Charlie Parker  | (617) 555-5555 | (781) 556-4444 | 4 Ornithology Way, Birdland, MA |
| Ella Fitzgerald | (508) 555-4444 | (508) 545-6666 | 6 Summertime Blvd., Atasket, MA |
| Arturo Sandoval | (413) 655-5656 | (508) 646-5555 | 9 Sandunga Dr., Trumpet, MA     |

### Facility Hazards

|  |  |  |
|--|--|--|
| Does an explosion risk exist at the facility?  | <input checked="" type="checkbox"/> Yes  | <input type="checkbox"/> No            |
| Could the facility release a respiratory hazard that could threaten site workers, emergency responders or neighbors? | <input checked="" type="checkbox"/> Yes  | <input type="checkbox"/> No            |
| Is it okay to shut the power off during an event?  | <input checked="" type="checkbox"/> Yes* | <input type="checkbox"/> No            |
| Is it okay to shut the water off during an event?  | <input checked="" type="checkbox"/> Yes  | <input type="checkbox"/> No            |
| Is it okay to shut the gas off during an event?  | <input checked="" type="checkbox"/> Yes  | <input type="checkbox"/> No            |
| Can a run-away chemical reaction/process occur?  | <input type="checkbox"/> Yes             | <input checked="" type="checkbox"/> No |

Describe issues/concerns for any yes answer.

Anhydrous ammonia refrigerant system, liquid held under pressure with several pressure relief valves along piping as well as check valves. Condenser and storage tank on rooftop with steel piping system leading into the building and leak detection sensors. Power required to operate leak detection system and indoor ventilation system.

\*For power shut off, if indoor ventilation is needed, the answer would be no.

Describe special hazards identified above.

Leak can result in ammonia gas absorbing moisture in outdoor air and forming a dense cloud traveling along the ground and pungent odor. Indoor leak in a confined space could result in a fire or explosion. Inhalation of ammonia may cause irritation and burns of the respiratory tract, laryngitis, dyspnea (shortness of breath), stridor (high-pitched respirations), and chest pain. Pulmonary edema and pneumonia may also result from inhalation. A pink frothy sputum, convulsions, and coma are often seen following exposure to high concentrations. When ammonia is ingested, nausea and vomiting may result; oral, esophageal, and stomach burns are common. If ammonia has contacted the eyes, irritation, pain, conjunctivitis (red, inflamed eyes), lacrimation (tearing), and corneal erosion may occur. Loss of vision is possible. Dermal exposure may result in severe burns and pain.

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Describe the three worst case scenarios that could occur involving toxic chemicals and/or hazardous materials stored on site:

| Scenario   | Negative Outcome  | Location   |
|--|---|--|
| <b>Failure of refrigeration system release valve or breach in storage tank or indoor/outdoor pipes or valves</b> | <b>Ammonia leak – anhydrous ammonia held under pressure can rupture from tank or lines and spread in plume as a gas either to the outdoors or within a confined space in the building</b> | <b>Roof, outdoor pipes and condenser; in warehouse, machinery room, king valve, relief valves, pumps and ventilation system.</b> |
|  |   |  |
|  |   |  |

### Planning Inventory

Fill in the table below and list all chemicals used or stored on site, including: chemicals and/or hazardous materials reported on Tier II; Toxics Use Reduction Act (TURA) [listed chemicals](#); any additional chemicals and/or hazardous materials. Add additional columns as needed to complete table (may attach as a separate sheet). Make sure to have current SDSs on file for each chemical and append to full emergency preparedness plan.

| Considerations   | Chemicals of Concern   |                                |                                |
|--|--|--------------------------------|--------------------------------|
|  | Insert chemical name & CAS no.   | Insert chemical name & CAS no. | Insert chemical name & CAS no. |
| Chemical Hazard(s) (e.g. flammable, corrosive)                       | <b>Anhydrous ammonia, CAS# 7664-41-7</b>   |                                |                                |
| Maximum volume stored on site  | <b>120,000 lbs.</b>  |                                |                                |
| How is it stored (e.g. drum, AST)                                    | <b>Steel tank, piping fitted with check and release valves to condenser and indoor units</b> |                                |                                |
| Where is it stored (e.g. room number)                                | <b>Rooftop tank and condenser, outdoor and indoor piping</b>                                 |                                |                                |
| Containment/Safety Precautions Provided (e.g. on containment pallet) | <b>Rooftop mount</b>   |                                |                                |
| Is the material found in process tanks or piping?                    | <b>Yes</b>   |                                |                                |

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### Site Sketch and Process Controls

Attach site sketch indicating the following:

1. Location of all utility shut-offs.
2. All hazardous materials and waste storage areas.
3. All chemically intensive process areas.
4. Indicate location of chemical storage or process tanks.
5. High hazard areas: potential for engulfment; electrical hazards; magnetic fields; poisonous gases; limited egress; open pits or shafts; radioactive materials; infectious materials or explosives or confined spaces.
6. Insert key that identifies and defines information provided.

List process control and corresponding room number in table:

| Process Control                   | Room Number/Location   |
|-----------------------------------|--|
| Circuit Breakers                  | <b>Electrical room</b>   |
| Gas Shut Off                      | <b>Machinery room</b>  |
| Water Shut Off                    | <b>Machinery room</b>  |
| Main Hazardous Waste Storage Area | <b>Indoor separate room, northeast building corner near loading dock</b> |
| Fire Alarm Control Panel          | <b>Machinery room</b>  |
| Gas Alarms                        | <b>Machinery room</b>  |
| Other _____                       |  |

\* Insert or attach photographs of controls and hazards to assist response activities. Process shut down procedures should also be included for activities that require a precise step-by-step procedure to achieve a controlled shut down.

### Nearby Sensitive Populations and Community Assets

Use [OTA's Chemical Safety & Climate Resiliency mapping tool](#) and/or any additional tools to look at **receptors** (populations) and **features** (community assets, facilities, etc.) within at least a ½ mile radius extending from the facility boundary. Identify the following types of sensitive receptors and/or features located within this planning radius: environmental justice populations; non-English language speaking populations; primary and secondary schools; private schools; colleges or universities; hospitals; ambulatory clinics; long-term care facilities; jails; public housing sites; daycare facilities; water & wastewater treatment facilities; municipal buildings; parks and playgrounds; flooding hazards such as inland or coastal flood zones or projections; and major transportation and evacuation routes. Attach a screenshot or print a copy of this map to include in the facility emergency preparedness plan.

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Contact information for sensitive receptors and features in planning radius:

| Facility Name              | Facility Address   | 24-Hour Emergency Contact Info |
|----------------------------|--------------------|--------------------------------|
| Baystate Housing Authority | 55 Resident Drive  | Erik Estrada (999) 667-6161    |
| Baystate Long-Term Care    | 21 Caregiver Way   | Robert Pine (989) 555-5555     |
| District High School       | 40 District Street | Larry Wilcox (999) 444-4444    |

### Spill Response

**Note: Immediately call MassDEP's Emergency Response line at 1-888-304-1133 and your local fire department to report a spill of oil/hazardous material or other environmental emergency.**

Spill response firm contracted to support the facility in the event of a release:

| Name              | Contact Information                          |
|-------------------|--|
| Baystate Clean-Up | Emergency Response 24-hr line (999) 888-8888 |

Are spill response supplies maintained on site? ☒ Yes ☐ No

If so, where are these materials stored?

**PPE available in storage cabinets located at end of aisle 1 northeast corner and aisle 232 southeast corner. Eye-wash stations located on warehouse floor at posts 45, 90, 135, 180, and 225. Spill containment kit and absorbent pads for oil spills.**

Describe number and type of materials stored on site:

**PPE for responders (6 goggles, 6 sets rubber gloves, 4 respirators), 5 eye-wash stations. Spill containment kit and absorbent pads stored in multiple locations near hazardous waste storage area and machinery room.**

### Signatures

Plan Summary Completed by: Frank Poncherello

Title: Environmental Health and Safety Supervisor

Date: 1/1/2021

Plan Summary Reviewed by: Joseph Getraer

Title: Executive Director

Date: 1/2/2021

*Each facility should review their emergency preparedness plan with on-site staff on an annual basis and update as needed. In addition, each facility should review their plan and this plan summary annually with the local Fire Department and local Health Director/Board of Health.*