

SAFETY INSTRUCTION 17.01: SITE EMERGENCY RESPONSE PLAN

1.0 PURPOSE OF PLAN:

The purpose of the emergency response planning procedures is to provide guidelines for the protection of all Employees, neighbours and company property in the event of an emergency occurring on company premises. It proposes the setting up of an emergency control organisation within the site and the establishment of emergency procedures including site evacuation procedures to ensure the safety of all personnel. Environmental emergencies and incidents will be managed according to the site Pollution Incident Response Management Plan (PIRMP) as prescribed in the Regulations of the NSW POEO Act 1997.

The plan will provide procedures for:

- (i) Notifying all on-site personnel of emergencies;
- (ii) Organising site based emergency response, where applicable;
- (iii) Facilitating communications with emergency services;
- (iv) Training of plant personnel in emergency response;
- (v) Reviewing and updating emergency procedures; and
- (vi) Facilitating recovery operations.

2.0 SUMMARY OF SITE:

The Site consists of the following:

Slaughter Floor
 Mutton Boning Room
 Main office
 Lamb Room
 Loadout
 Carton Shed
 Casings/Pet food/ Tripe Room
 Salts/ Skin shed
 By-Products / Rendering
 Maintenance
 Plant Store / Main Carton Store
 Offal room
 Stock Yards
 QA Office
 Medical Centre
 DOA Offices

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3.0 SCOPE OF PLAN:

3.1 Site Plan:

This plan has been prepared for:

Southern Meats Pty Ltd
 Mazamet Road
 NSW 2580

3.2 Definition of Situations Covered

The definition of an emergency within this plan is a situation on or off-site which has the potential to impact on the site and may not be contained immediately by the site personnel.

This may consist of:

- (i) Fires or explosions
- (ii) Flood or storm damage
- (iii) Armed hold-up or civil disturbance including bomb threat
- (iv) Spillage or other event leading to gross contamination.
- (v) Medical emergency.
- (vi) Loss of containment of Anhydrous Ammonia

4.0 TYPE OF EMERGENCY:

4.1 Gas supply

An LPG tank is located in the storage shed across from the Skin Shed. It contains 1000ltrs of LPG.

There is a Natural gas line into the boilers.

4.2 Fire

General fire risk on this site is consistent with the general nature of the products stored on the site. Plant is made from polystyrene sandwich panel, which is very flammable.

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4.3 Fire in neighbouring premises

There are no close industrial neighbours however there are three small domestic residences.

4.4 Explosion

Potential Inflammable Explosions:

- Acetylene bottles - Maintenance
- Fuel Tanks
- Flammable Liquid Storage Container
- LPG Tanks

Possible Pressure Vessel Explosions:

- Two Boilers

4.5 Flood & Storm Damage

Flooding is unlikely,
 Storm Damage is possible and Damage to buildings is a possibility.
 Flooding of the irrigation utilisation areas and overtopping of storage ponds is managed in accordance with the response provisions of the PIRMP.

4.6 Armed hold-up, civil disturbance and Bomb Threat

In line with Australian experience, the risk of these perils is slight. A bomb threat procedure is included in Appendix 9

4.7 Land Contamination and Chemical Spills

All effluent is treated on site. All stormwater goes through our first flush dam where any contaminants could be held if the circumstances arose.
 Chemicals are stored in bunded areas, and a chemical spill kit is located in chemical store. The Chemical store also has medium quantities of Hazardous Materials. The inventory of these chemicals is detailed in Chemical Register Data Base. SDS are retained within the store and in the medical centre.

4.8 Release of Anhydrous Ammonia

22 Tonne of anhydrous ammonia is used for refrigeration on the site. The location of the main compressor locations are described on the site plan (Appendix 10).

4.9 Medical Emergency

These would be consistent with industrial operations. The site is equipped with a fully equipped Medical Centre. All accidents incidents are required to be reported.

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5.0 REFERENCES:

In preparing this Emergency Response Plan, reference has been made to the following sources:

- (i) Hazardous Industry Planning Advisory Paper No1 - NSW Department of Planning
- (ii) AS 3745-2010 - Planning for emergencies in facilities
- (iii) Australian Standard AS 1470:1986 – Health and safety at work - Principles and practices
- (iv) AS 4428.4-2004 : Fire detection, warning, control and intercom systems - Control and indicating equipment - Intercommunication systems for emergency purposes

6.0 RESPONSIBILITIES:

6.1 Operational Hours

General Manager (Appendix 1)

This position will have overall responsibility for the emergency situation

Responsibilities include:

- a) Taking overall charge of the emergency;
- b) Liaison with the emergency services; and
- c) Communicating with owners.

WHS Manager / Appendix 2

Responsibilities include:

- a) Informing emergency services;
- b) Taking internal calls concerning emergency situation; and
- c) Obtain additional assistance & await instructions

Plant Manager (Appendix 3)

Responsibilities include:

- a) Determining the severity of the emergency;
- b) Ensuring safe removal of production Employees;
- c) Assisting in keeping supervisors informed; and
- d) Determining safest evacuation point.

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Area Supervisor (Appendix 4)

The supervisor of the area in which the emergency has occurred is responsible for:

- a) Raising the alarm;
- b) Checking the area for injured Employees; and
- d) Assisting the emergency services.

Maintenance Supervisor (Appendix 5)

Responsibilities include:

- a) Securing site;
- b) Inform the WH&S manager; and
- c) Providing personnel to combat the emergency if safe to do so.

Fire Wardens (Appendix 6)

Responsibilities include:

- a) Searching area to ensure all persons have been evacuated.
- b) Follow instructions given by area Supervisor

Occupational First Aider (Appendix 7)

Responsibilities include:

- a) Remain in the medical centre and administer first aid if needed;
- b) Contact ambulance if required; and
- c) Assist WH&S manager if required.

6.2 Afternoon Shift

Plant manager arranges to have called immediately:

- General Manager
- Dayshift Maintenance Manager
- WH&S Manager

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Head of maintenance on nightshift carries out the maintenance managers roles and responsibilities on dayshift.

6.3 Cleaning Shift

Notify Plant Manager Immediately. Carry out Task of Plant manager/ Supervisor/ Fire warden.

7.0 ALARM INITIATION:

7.1 Evacuation Alarms

Buildings on this site are large independent structures with a variety of processes and stored products. In most cases, alarms will be raised by word of mouth or upon noticing smoke or other incident. In some areas with high noise levels, independent alarms are provided at the main exits.

If the emergency causes a blackout, all 2 way radios are to be switched to channel 1.

With the risk of release of anhydrous ammonia Employees should remain within their designated building unless under the instruction of their supervisor or where the emergency is directly threatening their safety

7.2 Action upon identifying an emergency

All Employees identifying an emergency will carry out the procedure indicated in Appendix 8.

7.3 Communication with other areas

Employees in areas not directly involved with the emergency will remain in their area unless this is threatened by the emergency or told to leave by their Supervisor, General Manager or Emergency Services personnel.

The General Manager will keep all Employees informed of the emergency by radio contact or other nominated personnel.

8.0 INTERACTION WITH EMERGENCY SERVICES:

It is the objective of Southern Meats Pty Ltd to develop a site procedure that provides for a high level of interaction with the Emergency Services.

Communication mechanisms to be used in the event of a pollution incident are detailed in the site PIRMP and also on the Company website.

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It is recognised that the Emergency Services have legal authority to take command in some instances and will ensure that full information is available to Emergency Service personnel on whom informed decisions can be made at this point.

Southern Meats Pty Ltd also recognises the need for authoritative resources to be made available in the event of a major emergency to deal with:

- a) Communication with public and families.
- b) Personnel counselling aspects.
- c) Media.
- d) Outside resources e.g. structural engineers etc.

9.0 COMMUNICATION SYSTEMS:

9.1 Normal Communications

The two way Radio System will be used to communicate with:

- a) Maintenance, production, storage areas, QA & Main Office

The phone system/mobile system will be used to communicate with:

- b) Emergency services and outside resources and any other isolated personnel; and
- c) DOA on plant staff

9.2 Alternative Strategy

A two way Radio System and or Mobile telephones are available for managers and security and will be used as an alternative.

10.0 NOTIFICATION OF AUTHORITIES AND ADJACENT COMPANIES:

10.1 Emergency Services

The plan provides for direct telephone contact via the relevant switchboard from the WH&S manager.

10.2 Neighbouring Properties

The WH&S Manager will notify neighbouring properties as part of his / her responsibilities. For out of hours, responsibility will rest with Operations Manager

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Telephone numbers for neighbouring properties are included in Appendix 9.

10.3 Other Authorities

The General Manager will notify other authorities as necessary (Appendix 9).

11.0 MEDIA LIAISON:

The objective of site actions in the event of an emergency, which involves media attention, should be as follows:

- To ensure that Southern Meats Pty Ltd informed as quickly as possible of the media attention.
- To ensure that accurate facts on the impact of the emergency are collected and passed on to the General Manager **Craig Newton** as quickly as possible so that they can answer any Media enquires.
- To provide appropriate information to the emergency services to ensure that they can use the local media to keep local residents informed of any ongoing emergency.

By providing accurate information, Southern Meats Pty Ltd will minimise the risk of distorted or damaging reports.

11.1 Responsibilities:

The General Manager is the only site Employee is who designated to speak with the media.

Under normal circumstances, all media communication should be handled by Craig Newton.

12.0 RECOVERY OPERATIONS:

12.1 Recovery Plan

When the emergency is over and damage is localised to the extent that normal operations could resume in unaffected areas the General Manager will declare the emergency over following consultation with the Operations Manager and/or relevant emergency services.

The General Manager will then carry out the following:

- a) Arrange for appropriate personnel to carry out an assessment of the impact of the emergency.

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- b) The General Manager should develop an action plan to ensure that:
- The site is secure and made safe for all personnel;
 - Pollution due to leaking storage and firewater run-off is minimised; and
 - Production facilities are re-established.

12.1 Insurance

The Chief Financial Officer will ensure that the underwriters are informed. It is essential that all costs of recovery and increased costs due to the incident are identified. The General Manager should, therefore, arrange for a new cost centre code to be used for all purchases or contracts.

Significant expenditures (over \$10,000) should be approved by the underwriters before expenditure is made by site personnel.

13.0 TRAINING:

13.1 Emergency Response Team (Maintenance Staff) & Designated Fire Wardens

All members of the team and Fire Wardens should be fully trained in evacuation procedures and participate in a trial evacuation at least every 6 months.

13.2 Employees

All Employees should be trained in the roles they are expected to play during an emergency and/or an evacuation. A diagram of the evacuation route should be posted in the area.

13.3 Trial Emergency Response

Regular practice responses should be conducted in order to evaluate the effectiveness of the overall strategy and identify any deficiencies in the procedures. The initial exercise may highlight certain needs not specifically mentioned in the procedure. These specific needs should be incorporated into the plan and included in the next exercise. Testing of the procedures laid out in the PIRMP will be included in these trial run exercises.

14.0 INCIDENT INVESTIGATION:

As soon as possible after the emergency is over, a full investigation of the incident should be carried out. The factors contributing to the incident should be divided into three categories:

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- a) Design deficiencies in plant and equipment;
- b) The environment at the time; and
- c) The behaviour of individuals.

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The incident report shall include:

- a) Every known injury whether causing incapacity or not;
- b) Every incident which caused damage to plant or equipment;
- c) Every incident which although not causing injury or damage had the potential to do so; and
- d) Immediate remedial action taken to prevent recurrence.

15.0 VERIFICATION:

A trial of the Emergency Response Plan including a completed evacuation of each site must be carried out at least every 6 months.

The training and retraining of all personnel involved in the Emergency Response Plan and the PIRMP must also be carried out at least annually.

16.0 RECORDS:

Records are to be kept of all incidents occurring on site, and all trial exercises conducted. Records to be kept include:

- a) The incident report.
- b) Emergency Response Checklist.
- c) Reports from Emergency Coordinator.
- d) Reports from Emergency Services.
- e) Details of dates, locations, types and results of all trial emergency response exercises.
- f) Details of all training carried out.

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Responsibilities of General Manager

- Obtain status of emergency
- Determine need to evacuate and safe location for evacuation with area supervisor.
- Appoint a liaison person for the emergency services.
- Inform other parties as necessary
- Trigger the procedures in the PIRMP for environmental incidents
- After consultation with the Operations Manager and / or emergency services, declare the emergency to be over.

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APPENDIX 2 – WHS Manager

Responsibilities of WH&S Manager

- Inform Emergency Services.
- Inform the plant Manager and Maintenance Supervisor by radio when this is done.
- The Supervisor of the area concerned will contact the WH&S Manager by phone or radio.
- Obtain from Caller
 - Name & location
 - Type of emergency
- Contact
 - Relevant emergency services
 - General Manager
 - Maintenance Manager
 - Operations Manager
- Obtain additional assistance & await instructions.
- Only upon instructions from the area Supervisor or the Operations or Maintenance manager that the Emergency is a false alarm or the Emergency is over is the evacuation panel to be reset.
- Assist the occupational first aider when needed.
- Keep supervisors informed.

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Responsibilities of Operations Manager

- Responsibility for Co-ordinating Production staff evacuation.
- Determine the nature of the emergency through consultation with the maintenance manager/WH&S Manager.
- Confirm the WH&S and General Manager have been informed.
- Determine the need for assistance or evacuation.
- If evacuation is required, ensure Employees are moved to the appropriate evacuation area.
- Consult with supervisors and Fire wardens to inform them of the safest evacuation point.
- Once GM has declared the emergency to be over, communicate with the WH&S Manager, Area Supervisors and maintenance to co-ordinate a return to work.

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Responsibilities of Area Supervisor

- In the event of an emergency in your area:
 - Determine the nature of the emergency
 - Notify the Maintenance Manager
 - Notify the operations manager
 - Determine the need for assistance or evacuation.
 - If evacuation is required, advise the Operations Manager and move crew to designated evacuation area.
 - Determine any missing persons in consultation with Fire Wardens

- If the emergency is in another area:
 - Inform personnel & prepare to stop work.
 - Evacuate area if requested to do so by the Operations Manager, Fire Brigade or if in danger.

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APPENDIX 5 - MAINTENANCE SUPERVISOR

Responsibilities of Maintenance Supervisor

- Proceed to the emergency area.
- Contact General Manager with assessment of the situation.
- Commence emergency response using the nominated emergency response team:
 - Secure site.
 - Assist with evacuation if necessary.
 - Isolate plant.
 - Keep the General Manager updated.
- Liaise with the emergency services when they arrive on site.

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Responsibilities of Fire Wardens

- In the event of a fire, ensure that the fire has been reported to the Maintenance Manager and Operations manager.
- Follow the instructions of the Area Supervisor.
- In the event of an evacuation:
 - Check your area to ensure all Employees / contractors / visitors have evacuated.
 - Report to the Area Supervisor at the assembly area.
 - Await further instructions.

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Responsibilities of Occupational First Aider

- Remain in the medical centre and administer first aid if needed.
- Contact ambulance if required.
- Inform the Main Office, QA, DOA, Muslims and Canteen as required.
- Assist the WH&S Manager with any tasks that are required.

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Responsibilities of all Employees

- If you discover a fire or any other emergency:
 - Warn people in the immediate vicinity.
 - Raise the alarm by telling a supervisor or Dialling 117.
 - Inform the Area Supervisor.
 - Await instructions to evacuate.

- In the event of evacuation:
 - Make your work area safe.
 - Proceed to the designated assembly point or other area as instructed by the area supervisor.
 - Do not leave the assembly point until instructed.

- Note in cases of ammonia spillage you may be instructed to remain inside the building or go out of the building through an alternate route.

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**APPENDIX 9 - EMERGENCY
 TELEPHONE LIST**

Procedure to call an

AMBULANCE
In the case of a major accident / acute illness.

When First Aid personnel ask you to call an ambulance in the case of an accident or acute illness, please proceed as follows:

- 1. Go to nearest phone**
- 2. DIAL 0 to get an outside line**
- 3. DIAL 000**

Note phones without outside lines must dial **000**, if unsuccessful contact 117 or 101.

- 4. Clearly tell the ambulance officer:**
 - ⇒ Location of accident - Southern Meats
 - ⇒ Address - Mazamet Road
 - ⇒ Nearest cross street- Hume Highway/Garroorigang Rd
 - ⇒ Phone No. of Southern Meats 48240000
 - ⇒ **Extension No.** of the phone you are calling from.
 - ⇒ **Nature of accident** (laceration / crush injury / amputation etc.)
 - ⇒ **Number of people** involved
 - ⇒ **Your name**
 - ⇒ **Exact location of injured person** (first aid room etc.)
 - ⇒ **Condition of patient** - (Is patient conscious? / are they trapped? / Blood loss if any etc.)
 - ⇒ **Ask how long until the ambulance will arrive.**
 - ⇒ Note time of calling
- 5. Ring General Manager - 124 tell them:**
 - ⇒ There has been an accident
 - ⇒ The ambulance has been called
 - ⇒ Location of accident
- 6. Dispatch someone to the front gate to meet the ambulance and guide it to injured person.**
- 7. Report back to First Aid attendant tell them**
 - ⇒ Ambulance has been called & Estimated time of arrival

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Other Emergency Numbers

Ambulance	131 233
Police	(02) 4824 0799
State Emergency Services	(02) 4822 1800
Fire Brigade	4822 1608
Hospital	4827 3111
Work Cover	131 050

If in doubt dial **000**

Near neighbours to be notified if, Emergency could affect them.

Goulburn Wool Scours	4821 7366
Chris Rohde	0411543775
South Hill	48235296
Val Annable (Hunts property)	0417462674
Saleyard Paddock (Tony Granger)	0407 818721



APPENDIX 9 - BOMB THREAT PROCEDURE

Actions if "Bomb" or other Explosive Device Found

If an object or parcel, suspected of being a "bomb" or other type of explosive device is found by anyone, the following action should be taken:

- (1) Do not touch, tilt or otherwise tamper with the object, whether it is a bomb, improvised explosive device (IED) or whatever.
- (2) Immediately evacuate the area surrounding the object.

Consider the consequential damage and effect - both on-site and off-site - if process equipment, storage or pipelines are involved.

Use the following guidelines.

In Building

Evacuate the floor concerned as well as floors above and below. Common sense must prevail in areas such as open courtyards or paddocks or where extremely large or very small objects are located. The possibility of shrapnel must be considered.

Open Areas

Evacuate all persons to a safe distance - at least one hundred metres. Consideration must be given to the size of the object and the possibility of shrapnel.

Safety perimeters must be maintained until the device is rendered safe. The person taking such observations should remain in the safety area and approach police upon their arrival to supply all details of information.

- (3) Notify Police simultaneously with the commencement of evacuation. This may be affected by telephoning '000'.
- (4) Take Observations

Quick detailed observations should be taken of a suspected IED. Time spent near an IED must be kept to absolute minimum.

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Observations should include:

- (a) Exact location and proximity to hazards such as dangerous chemicals or flammable substances.
- (b) Size, shape and colour of object.
- (c) Any writings or labels appended to the device.
- (d) Any other peculiarities.

Police will, upon their arrival, co-ordinate and control all necessary procedures.

If a bomb threat is made by telephone, the Australian Bomb Data Centre check card set out below should be used to collect as much information as possible.

Copies of the Australian Bomb Data Centre card can be obtained from the Australian Federal Police Headquarters.

Action in the event of a "Bomb Threat":

In the event of a "Bomb" threat the telephone operator or other person receiving the call should obtain as much information as possible. Where practicable the person receiving the call should have access to the "Bomb Threat Checklist" following.

The receiver should then initiate a Class I alarm after consultation with the Emergency Controller.

The aim of the following procedure is to protect lives, however, this aim will not necessarily be complied with by evacuating staff to unsecured areas such as car parks and evacuation areas. The Emergency Response Group (ERG) should, therefore, complete the following actions before staff are evacuated by upgrading the alarm to Class II.

- a) The ERG should search all public areas for unusual parcels.
- b) All staff should shutdown machinery in a controlled manner and workgroups should search their immediate location.
- c) If the suspect package is located it should be treated in procedure (1) above.
- d) If searches of public and "secure" work areas do not identify any suspect packages, the EC in conjunction with site Senior Management and the emergency services should determine if evacuation can be completed safely or if work can be resumed.

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BOMB THREAT CHECK LIST:

Questions to Ask

1. When is the Bomb going to explode?
2. Where did you put the Bomb?
3. When did you put it there?
4. What does the Bomb look like?
5. What kind of Bomb is it?
6. What will make the bomb explode?
7. Did you place the Bomb?
8. Why did you place the Bomb?
9. What is your name?
10. Where are you?
11. What is your address?

EXACT WORDING OF THREAT:

ACTION

Report call immediately to the Operations/Production Manager by radio.
 If there is no response immediately ring them.

Day Shift	Danny Groake	0418 426 205
Cleaning Shift	Matt Williams	0417 414 799

REMEMBER KEEP CALM - DON'T HANG UP

BOMB THREAT

CALLER'S VOICE

Accent (specify): _____

Any impediment (specify): _____

Voice (loud, soft, etc.) _____

Speech (fast, slow, etc.): _____

Diction (clear, muffled): _____

Manner (calm, emotional, etc.): _____

Did you recognise the voice? _____

If so, who do you think it was? _____

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Was the caller familiar with the area? _____

THREAT LANGUAGE

Well spoken: _____

Incoherent: _____

Irrational: _____

Taped: _____

Message read by caller: _____

Abusive: _____

Other: _____

BACKGROUND NOISES

Street noises: _____ House noises: _____

Aircraft: _____

Voices: _____ Local call: _____

Music: _____ Long distance: _____

Machinery: _____ STD: _____

Other: _____

OTHER

Sex of caller: _____

Estimated age: _____

CALL TAKEN

Date: / / Time: _____

Duration of call: _____

Number called: _____

RECIPIENT

Name: _____

Telephone number: _____

Signature: _____

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APPENDIX 10 - ANHYDROUS

AMMONIA SPILL PROCEDURE

1.0 BACKGROUND TO HAZARD

- 1.1 Anhydrous ammonia is a very volatile liquid. The gas from any spillage or leak is irritant and toxic with a strong caustic action on moist parts of the body.
- 1.2 Ammonia will only burn under extreme fire conditions however its acrid vapour makes fighting fires difficult. It can react explosively with chlorine and hypochlorites.

2.0 EMERGENCY RESPONSE LEVELS:

Level detected	Action	Re-Entry
0 – 13ppm	No Action – Be alert	NA
13ppm – 25ppm	Prepare to evacuate	<13ppm
25ppm – 35ppm	Start Evacuation	<13ppm
>35ppm	Evacuate Immediately	1 hour level must be <13ppm (4 times max)

3.0 EMERGENCY RESPONSE:

In the event of a significant leak from the refrigeration units the following action will be taken by maintenance staff -

- 3.1 The immediate area of the leak will be evacuated.
- 3.2 The alarm will be raised with the Refrigeration Mechanic and leaks will be isolated remotely if possible.
- 3.3 If access to the compressor room is required, this will be done using self-contained breathing apparatus, protective suit and goggles. Access will only be made in pairs under these circumstances.
- 3.4 If isolation of the ammonia leak is not possible the area will be secured awaiting the arrival of the emergency services.
- 3.5 Water should not be sprayed directly on to anhydrous ammonia since this will cause a greater amount of evaporation.
- 3.6 The General Manager must be informed at all stages by the maintenance crew so that evacuation can be initiated if required.



4.0 Raising the ALARM:

In the event of a leak being reported the following activities will occur:

- 4.1** The Employee detecting the leak will inform his Supervisor
- 4.2** His Supervisor will -
 - 4.2.1** Contact Maintenance Manager by radio or phone 0419437215 and report the leak
 - 4.2.2** Contact the Plant Manager (depending on the shift).

5.0 ACTION TO BE TAKEN ON ALARM:

- 5.1** The Maintenance Manager will immediately review the situation with Refrigeration Mechanic to determine its status and determine if an Ammonia Emergency is to be declared
- 5.2** If the leak requires an evacuation of the immediate area or the site the Plant Manager will inform the Area Supervisor(s) by radio giving the following details:
 - 5.2.1** Nature of emergency.
 - 5.2.2** Door by which the area should be evacuated.
 - 5.2.3** Location of evacuation point.
- 5.3** All other Employees should remain indoors.
- 5.4** Maintenance manager should (if needed) organise turning off air conditioners or ventilation into other areas.

6.0 EVACUATION AREAS:

- 6.1** Three evacuation areas will be decided on at the time to ensure that evacuation can be made to the area free of ammonia fumes.
- 6.2** The relevant area can be determined by the direction of the wind.
- 6.3** All Employees evacuated should remain at the evacuation point designated by the Operations Manager or Production Manager unless they are:
 - 6.3.1** Told to move by the Emergency Services
 - 6.3.2** Threatened by ammonia fumes due to a change in the wind direction
- 6.4** Area supervisors will determine if persons are missing and inform the Operations manager / Production manager who will inform the Maintenance Supervisor or Emergency Services.

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7.0 PROCEDURES:

Routine Maintenance

- 7.1** All ammonia plant maintenance will be carried out by personnel who have been trained in the hazards of this material.
- 7.2** All low risk routine maintenance work will be carried out using Full face Mask with a filter cartridge suitable for use with ammonia.
- 7.3** For jobs in which anhydrous ammonia could be released under pressure a full-face cartridge respirator suitable for ammonia must be worn.
- 7.4** For any activity involving the drainage of anhydrous ammonia or involving a release to atmosphere of a small quantity of material a chemical cartridge respirator suitable for ammonia must be worn.

Emergency Equipment

- 7.5** The following emergency equipment will be maintained:
 - 2 Self contained breathing apparatus
- 7.6** Emergency Chemical Shower and Eye Wash Locations are:
 Eye Wash: outside chemical store, slaughter floor washrooms (slaughter and trim ends) and maintenance entry, pet food washroom, and skin shed.
 Emergency Chemical Shower: Outside maintenance locker room and near Caustic (sodium Hydroxide) tanks.
- 7.7** Maintenance personnel who work on the ammonia compressor plant will be trained in the use of this equipment.

Emergency Entry

- 7.8** In the event of an emergency involving the loss of containers of anhydrous ammonia remote shutdown of the compressor should be initiated.
- 7.9** In the event of entry being required to a compressor house containing spilt anhydrous ammonia the following precautions will be taken.
 - 7.9.1** Entry will only be made in pairs
 - 7.9.2** Trigger levels for wearing PPE

Trigger levels can be based on various published values contained in the Australian Occupational Exposure Standards¹¹ provided to protect Employees. These standards recommend airborne concentrations, which, according to current knowledge, should neither impair the health of, nor cause undue

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discomfort to nearly all Employees. The Australian Occupational Exposure Standards for ammonia gas are:

TWA¹² 25 parts per million (ppm)
 STEL¹³ 35 ppm

¹¹ Published by Safe Work Australia, available at <http://hsis.ascc.gov.au>.

¹² TWA, Time Weighted Average, means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

¹³ STEL refers to the Short Term Exposure Limit means a 15-minute TWA exposure, which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.

Also, Immediately Dangerous to Life and Health (IDLH)¹⁴ values are published to guide the selection of breathing apparatus that are made available to Employees or fire fighters in specific situations. The IDLH value for ammonia gas is 300 ppm.

¹⁴ IDLH is defined by the US National Institute for Occupational Safety and Health (NIOSH) as exposure to airborne contaminants that is “likely to cause death or immediate or delayed permanent adverse health effects or prevent escape from such an environment”.

The following personal protective equipment could be worn during emergency operations on the basis of:

- **Less than 25 ppm**, don full-face respirator
- **25 to 300 ppm**, don splash suit and SCBA (or suitable respirator)
- **Over 300 ppm**, don encapsulated (impervious) suit (pictured below) and SCBA to prevent chemical burns (e.g. may occur from ammonia dissolving in sweat).

7.9.3 Self-contained breathing apparatus and full chemical suits will be worn.

Entry to the compressor house will be controlled by an individual responsible for raising the alarm if the work is not completed before the air supply expires

First Aid

7.10 First Aid will be provided for effected persons as per Appendix 7.

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EMERGENCY EVACUATION PROCEDURE

IN AN EMERGENCY, YOU SHALL EVACUATE WHEN INSTRUCTED TO DO SO BY YOUR SUPERVISOR

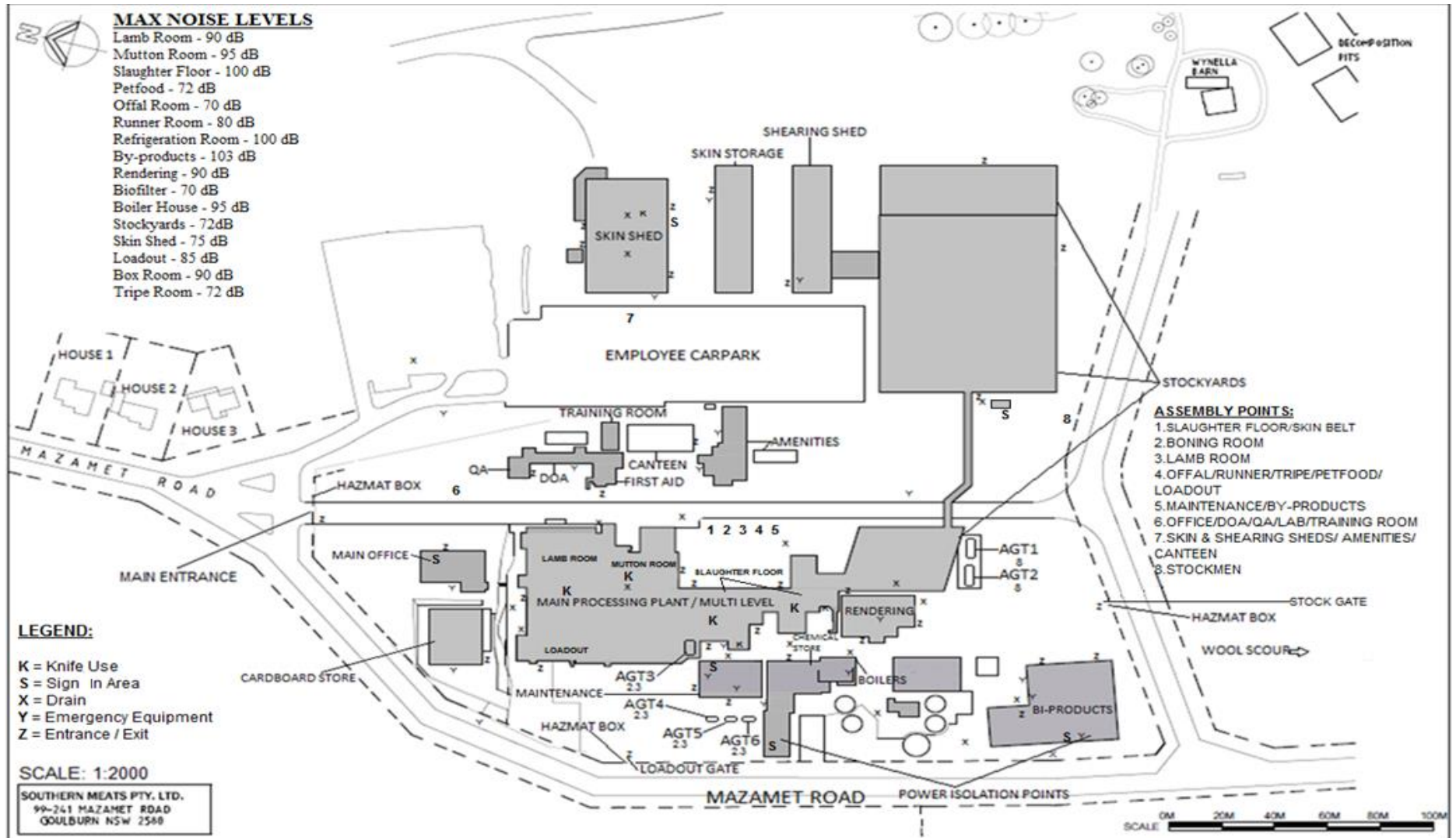
YOU WILL EVACUATE BY THE EXIT YOU ARE INSTRUCTED TO DO SO BY YOUR SUPERVISOR.

YOUR EMERGENCY EVACUATION POINT IS LISTED BELOW.

WAIT AT THIS POINT – DO NOT LEAVE THIS AREA UNTIL INSTRUCTED TO DO SO BY YOUR SUPERVISOR

ASSEMBLY POINTS

SLAUGHTER FLOOR / SKIN BELT	=	No. 1
BONING ROOM	=	No. 2
LAMB ROOM	=	No. 3
OFFAL/RUNNER/TRIPE PETFOOD/LOADOUT	=	No. 4
MAINTENANCE/BY-PRODUCTS	=	No. 5
OFFICE STAFF/DOA/QUALITY ASSURANCE/LAB/TRAINING ROOM	=	No. 6
SKIN SHED/ SHEARING SHED/CANTEEN/ AMENITIES	=	No. 7
STOCKMEN	=	No. 8



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