Manure Composting and processing

Policy / Procedure:	**Air Quality Management Plan**
Operations Area:	**Environmental Management**
Responsible Persons:	**Managers / Supervisors / Staff**
Where Applicable:	**Manure Processing Facility**
When Applicable:	**All Times**

Procedure / Actions Detail:

Air Quality Management Practices - Composting

1. Maintain moisture consistency for all manure delivered to site to prevent dust during turning and screening and general handling.

   - Optimum manure moisture range of between 40-45% is achieved by adding fresh or effluent water into the manure and mixing with the windrow turner.

2. Maintain turning program as per Australian Standards AS4454-2012,

   - Compost to be turned minimum 5 times in 15 days with temperatures exceeding 55 degrees C to kill weed seeds and pathogens.

   - A regular turning program ensures that the windrows remain aerobic, helping to minimise odours.

3. Maintain vigilance to potential dust and odour sources. Key sources and controls are identified below.

   - Turning and screening of compost to be suspended when winds exceed 30km/hr, determined by the onsite weather station.

   - Inspect carcass composting area for uncovered carcasses. Cover with adequate depth of material to provide vermin and visual protection.

   - Eliminate stagnant water on the composting pad. Repair compost pad surface.

4. Determine if roads are contributing to excessive dust generation.

   - Ensure equipment to be used (Water Truck) is in correct serviceable condition. Fill truck at water fill point.

   - Commence road watering, apply enough water to saturate dust but attempt to limit large amounts of free water runoff as this damages the road surface.

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Air Quality Management Practices - Granulation

1. Maintain a target moisture level of 30–40% in the finished compost to reduce dust during loading, screening and conveying.
2. Maintain all work areas to limit the accumulation of material between shifts
3. Vacuum spills using central waste system in lieu of using compressed air.
4. Ensure ductwork, covers, lids and shrouds are maintained in good condition and are fitted adequately to ensure air handling and dust control systems are operating at optimum performance

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Procedure / Actions Detail:

Air Quality Management Practices - Drying

1. Operate granule drying systems at suitable setpoint to ensure optimum moisture of 10-12%on exit.
2. Ensure Gas burner temperature set points are restricted to a maximum of 150 deg C
3. Operate granule drying systems to achieve a maximum granule temperature of. 70 Deg
4. Maintain dryers, ducting, cyclones, fans and pumps in a safe andserviceable condition to ensure optimal air handling conditions

Air Quality Management Practices - Factory

1. Store raw materials and finished goods in designated and suitable location, i.e. undercover where applicable,
2. Ensure ductwork, covers, lids and shrouds are maintained in good condition and are fitted adequately to ensure air handling and dust control systems are operating at optimum performance
3. Maintain all work areas to limit the accumulation of material between shifts
4. Vacuum spills using central waste system in lieu of using compressed air when possible.