

Fumigation Audit Checklist

Date of Audit	
ID	
Company Name	
Address	
Telephone	
Fax	
Email	
Manager	
Accredited person (s)	
Lead Auditor	
Auditor	
Auditor	

Note : Any obstruction of the audit team that hinders collection of evidence will result in the issue of a critical non-conformity.

Section 1 - Technical Activities / Aspects

Section 2 - Documentation

Section 3 - Audit Observations

Note :

References to the :

Standard* refers to the AQIS Methyl bromide fumigation standard.

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Fumigation Specialist*

Section 1

MB Standard Section	Technical Activities / Aspects	Conformance		Rating	N/A or Unknown	Comments
		Yes	No			
1. Fumigation Considerations- Commodity, Dosage and Temperature						
1.1	The commodity has been verified as suitable for fumigation prior to the fumigation			Major		
1.2	The dosage rates conformed to: • Permit conditions to import • Quarantine Directions of importing country			Critical		
1.3	Temperature of fruit pulp measured for dosage calculations (if applicable)			Major		
1.4	The expected temperature has been determined prior to the fumigation through a verifiable source (above 10)			Minor		
1.5	The dosage rate applied were compensated for at temperature below 21 at NAP			Major		
1.6	For temperature below 10°C, heater were used to raise the temperature within the fumigation enclosure			Critical		
2. The Fumigation Site						
2.1	The fumigation site is: a) isolated from unprotected personnel b) well ventilated			Major		
2.2	Unseal cracks and/or drains are at least 1 m from the fumigation enclosure			Major		
2.3	The fumigation site floor is smooth and impervious to the fumigant (if under sheets)			Major		
3 Preparing the Commodity						
3.1	200 mm free air space exists above the commodity with space at the sides to allow fumigant circulation?			Major		
3.2	Is the commodity/packaging suitable for for fumigation as required by the fumigation stand?			Critical		
3.3	Is the target commodity impervious to fumigant?			Critical		
3.4	Any impervious wrapping of the commodity meets the Wrapping and Perforation Standard or was either perforated, slashed, opened, cut or removed prior to fumigation?			Critical		

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		Yes	No			
4. The fumigation Enclosure						
4.1	Monitoring tubes positioned correctly and in sufficient number ?			Major		
4.2	Gas supply pipes positioned correctly and in sufficient number?			Major		
4.3	Do the number and positioning of fans in the in the fumigation enclosure meet requirement?			Minor		
4.4	If the fumigation sheet is not being used, was a pressure decay test undertaken prior to fumigation ?			Major		
4.5	If a pressure decay test was not unsuccessful, was the container sheeted to standard requirements?			Critical		
4.6	Fumigation sheet and sand snakes placed and fitted to achieve a gas tight enclosure?			Major		
4.7	Were fumigation sheets virtually inspected for tears, holes and abrasions and repaired as required, prior to the introduction of fumigant?			Minor		
4.8	For permanent fumigation chambers, has a pressure test been performed (minimum of twice a year)?			Major		
4.9	Was a 3m exclusion area around the enclosure created if in the open (6m if the fumigation was being performed in a warehouse or other enclosed space)?			Major		
5. Equipment (non-conformities below in blankets are advisory ratings)						
5.1	Methyl Bromide Standard or ready reckoner is on site			(Minor)		
5.2	The fumigation sheets meet the permeability requirement stated in the standard			(Major)		
5.3	Monitoring are of a suitable material- Nylon or hydraulic hose, NOT Vinyl tubing			(Minor)		
5.4	Are respirator mask(s)/ castridge(s) serviceable and insufficient number?			(Major)		
5.5	Are gas applicator/ dispenser/ weighing scales serviceable?			(Major)		
5.6	Vaporiser design is fitted for purpose?			(Major)		
5.7	Are the sufficient and adequart heaters available for work claimed?			(Major)		
5.8	Leak detector/checking equipment used			(Major)		
5.9	Gas monitoring equipment plus correct accessories (where applicable eg; moisture and CO2 absorption tubes) are fitted			(Critical)		
5.10	TLV testing equipment used			(Major)		
5.11	Fruit pulp temperature measuring equipment (if applicable)?			(Major)		
Overall Equipment Rating						
Deficiencies that may not affect the fumigation				Minor :		
Deficiencies that may affect the fumigation				Major :		
Deficiencies that will result in a failed fumigation				Critical :		
5.12	Are instrument calibrated according to the manufacture' specification?			(Critical)		

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6. Calculating the Dosage of Fumigant Required						
6.1	Was the volume of fumigation enclosure calculated correctly?			(Major)		
6.2	Was the correct dosage are used for the commodity and country origin?			(Major)		
6.3	Was the correct amount applied to the enclosure?			(Critical)		
6.4	Was compensation applied for less than 100% fumigant concentration?			(Major)		
7. Performing the Fumigation						
7.1	Is the vaporiser correctly used to supply hot fumigant to the enclosure-100C > < 65 C			(Major)		
7.2	Was the fan(s) operating during the introduction of the fumigant into fumigation enclosure?			(Minor)		
7.3	Was the fumigation enclosure and application equipment checked for leaks before the intrduction of the entire amount of the fumigant?			(Minor)		
8. Monitoing and maintaining Fumigant Concentration						
8.1	Are fumigant concentrations at or above Standard and in equilibrium at the start of the exposure period?			(Critical)		
8.2	The number and timing of monitor readings are taken and recorded in accordance with the Standard?			(Major)		
8.3	Were the fumigant concentration(s) within the allowable range as stated in the Standard (Ready Reckoner) throughout the exposure period?			(Critical)		
8.4	Was the use of the top-up option undertaken in compliance with the Standard (if used)?			(Major)		
8.5	Were the top-up details and the reason recorded (if used)?			(Minor)		
9. Completion the Fumigation						
9.1	Was the fumigation enclosure correctly declared free of fumigant prior to acces by unprotected personnel - less than 5 ppm?			(Major)		
9.2	Was a fumigation Site Record Sheet completed during the fumigation peroid?			(Minor)		

Section 2

MB Standard* Section	Technical Activities / Aspects	Conformance		Rating	N/A or Unknown	Comments
		Yes	No			
1. Administrative/ Document						
1.1	Does the fumigation company have all necessary licences and a registered with the relevant local authority?			(Major)		
1.2	Does the fumigation company have their organisational structure documented?			(Minor)		
1.3	Does the fumigation company have sufficient trained fumigation staff for the work claimed?			(Major)		
1.4	Does the Technical Manager/Accredited Fumigator have the necessary qualifications/accreditation?			(Major)		
1.5	Does the fumigation company have documented Work Instructions?			(Minor)		
2. Have the following records has been maintained for 2 years (if applicable)?						
2.1	Staff training records			(Minor)		
2.2	Records of previous audits			(Minor)		
2.3	Equipment purchase/transfer or stocklist			(Minor)		
2.4	Equipment calibration records			(Minor)		
2.5	Fumigant stock and usage record			(Minor)		
2.6	Fumigation worksheets/record of fumigation			(Major)		
2.7	Are documents relating to the fumigation order/shipment/invoices for the work carried out available?			(Minor)		
2.8	Are these documents accurate?			(Major)		
2.9	Fumigation Certificates			(Major)		
2.10	Is the information written on the Fumigation Certificates accurate?			(Critical)		
2.11	Is there evidence of fraud?			(Critical)		

