Rice Miller Perspective on ProFume* Gas Fumigant

Dwight Isbell Producers Rice Mill, Inc Stuttgart AR







Fumigation Details

 Methyl bromide originally used in house
 First ProFume job 2006 contracted out to Dickson Chemical Stuttgart AR
 Once per year fumigations
 4.6 mm cu ft total



Fumigant needs...ProFume Delivers

It is cost effective
Controls insects

Red flour beetle
Confused flour beetle
Sawtoothed grain beetle

– Warehouse beetle



Protecting Facilities & Environment

It is safer for the environment, does not affect the ozone

Introduction process with fans puts less stress on seals over doors



Fumiguide Program

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ral Info (Optional)									
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ame: Producers Rice Mill	Job Name: White Mill		Fumigat	ion Date: 05/2	6/2006	Licer	nsed Furnigator		
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et Pests: Confused Flour Beetle(Tr Red Flour Beetle(Triboliu	ibolium confusum)	confusum)		Low	•		Commodity:	one	•
Sawtoothed Grain Beetle	(Orvzaephilus surinamensis								
Warehouse Beetle(Trogo Indian Meal Moth(Plodia	oderma variabile)		*Fumigation Type:	Space	•	Load	Factor (%):		
Mediterranean Flour Mot	h(Ephestia kuehniella)	_					- No a	diustment w	ill be made for
Codling Moth(Cydia pom	onella)	<u> </u>	*Pressure Type:	Normal Atmosp	heric Pressure 💌		C sorpti	on by com	ill be made for nodity
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Area Name		*Est. HLT	*Exposure Time	*Area Volume	Fumigant Required		User-defined		
irst Floor	86°F	15.0 hrs	40.0 hrs	249,600 cu ft	374 lbs		0 oz-hr/MCF	24 0:	
econd Floor hird Floor	86°F 86°F	15.0 hrs 15.0 hrs	40.0 hrs 40.0 hrs	199,680 cu ft 249,600 cu ft	299 lbs 374 lbs		0 oz-hr/MCF 0 oz-hr/MCF	24 o: 24 o:	
ourth Floor	86°F	15.0 hrs	40.0 hrs	424,320 cu ft	635 lbs		0 oz-hr/MCF	24 02	
ifth Floor	86°F	15.0 hrs	40.0 hrs	834,250 cu ft	1249 lbs		0 oz-hr/MCF	24 02	
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rice mill. inc.

Fumiguide tells us:
 exactly where we are during exposure
 what is needed for a successful fumigation
 Results in easy to understand word format

Benefits over Heat Treatment

No heating seals in motors and gear boxes

No stress on conveyor belts like we could have with a heat treatment

There is less stress on the facility

Less time needed in a large concrete facility for fumigation vs. extended time needed to heat up and cool down during a heat treatment





Benefits over Methyl Bromide

Methyl bromide seemed to have great expansion and contraction on our plastic causing issues with sealing the facility

Aeration of ProFume from bins full of rice seems to be quicker than with methyl bromide





Questions...

