

Farmer's Gin, Inc. of Star City by letter of July 19, 1976, copy attached, has requested a variance from the provisions of the Arkansas Air Pollution Control Code.

Variance is hereby granted subject to the following conditions:

- (1) Improvements in equipment, as described in the attached letter, will be made, prior to commencement of operation.
- (2) If these improvements fail to produce sufficient improvements in emissions, and upon notification by the Department, Farmer's Gin, Inc. shall discontinue use of the burner.
- (3) The terms of this variance extends only through the 1976 ginning season.

COMMISSIONERS

*[Handwritten signatures and initials]*  
BES by JS  
RCR by JS  
AJP

Billy Fran  
CHAIRMAN

SUBMITTED BY: J. E. Southall

DATE: July 23, 1976

*The Farmers Gin Inc.*

Phone 628-4585

STAR CITY, ARKANSAS 71667

July 19, 1976

Mr. John A. Mitchell  
Arkansas Department of Pollution Control and Ecology  
Air Control Division  
8001 National Drive  
Little Rock, Arkansas 72209

RE: THE FARMER'S GIN, INC.  
VARIANCE FOR 1976 SEASON

Dear Mr. Mitchell:

Please consider this to be our formal request for permission to operate our existing air pollution control equipment during the 1976 ginning season, said equipment consisting of the following:

- (a) One jug type burner, 54' stack, lined with five bricks, which is in excellent condition;
- (b) The above described burner is equipped with a "heat shield" at the top of the shell with a baffle under the smoke stack to effectively deflect heat, smoke, and other residue attempting to escape directly through the stack opening. The heat shield that was installed will be replaced by a much larger and more effective shield. The old heat shield burned out during the season last year and this fact was probably a large contributing factor to our emission of a greater amount of debris. A wire screen will also be placed over the top of the stack to further assure that only a minimum amount of debris escapes from the stack;
- (c) There are also five (5) large diameter cyclones located and operating in a central collection point, picking up trash with a fan and depositing said trash through one cyclone into the burner, thereby effectively relieving top air with which the trash can be disposed of;
- (d) The incinerator is equipped with a forced air system which enables us to control the under fire air. The constant speed motor, which in the past has powered the system, has been replaced by a variable speed motor which makes it possible for us to better control the under fire air;
- (e) We also employ controlled high velocity overflow air at the perimeter to produce a cyclone turbulence over the pile.

Our incinerator, as is common, was originally designed and built with a larger capacity than was needed. Now, however, after the

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## *The Farmers Gin Inc.*

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STAR CITY, ARKANSAS 71667

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improvements and new equipment installed in our gin, there will be less waste, both in the capacity and in the effectiveness, in our existing burner which should result in more fire and heat and less smoldering and other such processes which produce a high degree of smoke. Therefore, we feel our smoke reading for 1976 will be much better than our last reading which was taken in 1974.

I would also like to point out that our gin suffered a \$24,488.00 loss in 1975 and we are currently \$200,000.00 in debt as a result of the new equipment and remodeling that was done in 1975.

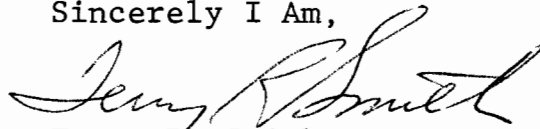
We also feel that because of this new equipment our actual operating time will be greatly reduced, as our ginning capacity is now sixteen (16) bales per hour and we project a ginning year of approximately 3500 bales.

We have explored other methods of disposing of our trash and the feasibility of acquiring resource recovery equipment. However, the cost of this equipment is so high that in light of our current economic and financial standing, that we feel it impossible to secure any such equipment.

Due to the factors as set out above and the uncertainty as to the future of all small margin cotton gins, we cannot see the practicality or feasibility of expending any large sums of money at the present time. We hope that the above information will enable you to make an enlightened determination as to our gaining and securing a variance to operate our gin during the 1976 season.

We certainly want to thank you and the commission for the cooperation and understanding in the past and we certainly hope that this will continue in the future.

Sincerely I Am,



Terry R. Smith  
Secretary and Treasurer  
Farmer's Gin, Inc.