

AE# 18259



DRY LITTER POULTRY ANIMAL FEEDING OPERATION GENERAL PERMIT NOTICE OF INTENT (DLPNOI)



COVERAGE NUMBER: MSG20 0453. For re-coverage, the coverage number must be completed for your specific project or this form will be considered incomplete and returned. The coverage number can be found at the bottom left corner of your previous Certificate of Coverage or in the subject heading of the Letter of Instruction for Re-coverage.

RECEIVED

AUG - 2 2019

I. GENERAL INFORMATION

A. CONTACT AND FACILITY INFORMATION

Dept. of Environmental Quality

Name of Owner: James W. King

Facility Name: no name

Mailing Address:

Street or P.O. Box: 13 CR 159

City: Stringer State: MS Zip: 39481

Physical Site Address:

Street (can not be a P.O. Box) 1089 Hwy 15

City: Stringer State: MS Zip: 39481

County: Jasper

(For new facilities) Latitude (degrees/min/sec): _____ Longitude: _____

(For new facilities) Nearest named receiving stream: _____

Facility Telephone No. (Include Area Code): 601-649-6310

Facility Fax No. (Include Area Code): _____

Contact Cell Phone No. (Include Area Code): 601-577-1180

Other Contact Phone Numbers (Include Area Code): _____

Contact Email: JWKing74@yahoo.com

B. ACTIVITY TYPE (Check all that apply)

☒ Existing operation NOT proposing expansion. Number of existing houses: 3

☒ Existing operation of an incinerator(s). Number of existing incinerator(s): 1

☐ New or expanding operation. Number of proposed houses: _____ Number of proposed incinerators: _____

[Handwritten signature]

Page 1.1

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

LABORATORY OF ORGANIC CHEMISTRY

REPORT OF THE RESEARCH GROUP OF
PROFESSOR J. H. GOLDEN
ON THE REACTION OF
HYDROGEN ATOMS WITH
METHANE

BY
J. H. GOLDEN

The reaction of hydrogen atoms with methane has been studied by the technique of laser-induced fluorescence. The reaction was found to be exothermic and to proceed via a transition state. The rate constant for the reaction was determined as a function of temperature and pressure. The results are consistent with the proposed mechanism for the reaction.

The reaction of hydrogen atoms with methane is a fundamental reaction in the field of combustion chemistry. It has been the subject of numerous studies over the years, and the results have been used to develop models for the reaction. The present study provides new data on the reaction, which can be used to improve these models.

The reaction was studied using a laser-induced fluorescence technique. This technique involves the excitation of hydrogen atoms by a laser, followed by the detection of the fluorescence. The rate of the reaction was determined by measuring the decay of the fluorescence signal.

The results of the study show that the reaction is exothermic and proceeds via a transition state. The rate constant for the reaction was determined as a function of temperature and pressure. The results are consistent with the proposed mechanism for the reaction.

The reaction of hydrogen atoms with methane is a fundamental reaction in the field of combustion chemistry. It has been the subject of numerous studies over the years, and the results have been used to develop models for the reaction. The present study provides new data on the reaction, which can be used to improve these models.

The reaction was studied using a laser-induced fluorescence technique. This technique involves the excitation of hydrogen atoms by a laser, followed by the detection of the fluorescence. The rate of the reaction was determined by measuring the decay of the fluorescence signal.

The results of the study show that the reaction is exothermic and proceeds via a transition state. The rate constant for the reaction was determined as a function of temperature and pressure. The results are consistent with the proposed mechanism for the reaction.

II. DRY LITTER POULTRY FEEDING OPERATION CHARACTERISTICS

A. TYPE AND AMOUNT OF CHICKENS

For Existing Facilities:

Has the facility changed the number of houses or animal type (ie. broilers or layers)?

☒ No ☐ Yes – Identify Changes: _____

For New Facilities:

Check type and indicate amount

☐ Broiler (SIC 0251): _____ ☐ Pullet/Breeder (0252): _____

B. CONTRACT INFORMATION

Is this facility a contract operation? ☐ No ☒ Yes- Integrator Name: Peco

C. TYPE OF DRY LITTER STORAGE AND CAPACITY

For Existing Facilities:

Has the facility changed the litter storage type or the capacity?

☒ No ☐ Yes – Identify Changes: _____

For New Facilities:

List type of dry litter storage and capacity (tons): _____

D. NUTRIENT MANAGEMENT PLAN

If you do not have a current Comprehensive Nutrient Management Plan then one must be submitted, if your CNMP is current then complete the dates below:

Development Date: 7-2019 Expiration Date: 6-2024

The comprehensive nutrient management plan (CNMP) identified above expires five years from the date it was developed and an updated nutrient management plan must be submitted to MDEQ prior to its expiration date.

III. CONSTRUCTION AND/OR OPERATION OF A POULTRY MORTALITY INCINERATOR

- ☐ No, there is no poultry mortality incineration equipment located at the facility. If at a future date you wish to construct and/or operate poultry mortality incineration equipment, you must submit an updated DLPNOI by completing Sections IA, III and IV. Constructing and operating poultry mortality incineration equipment without a modified coverage or issuance of individual permits is a violation of state law.
- ☒ Yes, there is mortality incineration equipment located at the facility. Complete section below:

MORTALITY INCINERATION EQUIPMENT

For Existing Facilities:

Has the facility changed the number or type of incinerators, or the fuel type burned?

☒ No ☐ Yes – Identify Changes: _____

For New Facilities:

Manufacturer Name: _____ Model Number: _____

Capacity (tons/hour): _____ Fuel Type: _____

IV. CERTIFICATION

Note: This NOI shall be signed according to Conditions T-17 and T-18 found in ACT 6 of the Dry Litter Poultry Animal Feeding Operations Multimedia General Pollution Control Permit No. MSG20.

- For a corporation, by a responsible corporate officer.
- For a partnership, by a general partner.
- For a sole proprietorship, by the proprietor.

I understand that my nutrient management plan identified Section II. D. expires five years from the date it was developed and that an updated nutrient management plan must be submitted to MDEQ prior to its expiration date.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that the project continues as described in the original notice of intent. Also, I certify that I understand when coverage is terminated I am no longer authorized to operate activities identified under this general permit and to do so without proper permit coverage is in violation of state law.

James W. King
Signature of Responsible Official

James W. King
Printed Name

7-30-19
Date

Owner
Title