

TO: Distribution

FROM: T. G. Grumbles

DATE: November 12, 1986

Interoffice
Communication

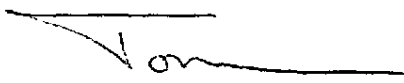
SUBJ: DISPERSION MODELING PLANNING MEETING

VISTA

The subject meeting will be held Friday, November 21 at the LCCP Safety Department conference room, from 9:00 a.m. - Noon. An agenda for the meeting, a general description of the modeling project, and a background letter is attached.

Please note Item IV and be thinking about what would be useful for aiding the plant in the reporting of emergency releases to local and federal authorities and community right-to-know aspects of recent regulations.

If you have questions before the meeting, please call me (X3445) or Mary Jo Heller (X6884) in Houston.



Thomas G. Grumbles

ajo/9

Attachments

cc T. H. Huffman - LCCP Mgr
L. R. Bauer - LAB "
R. A. Conrad - LCVCM "
J. A. DeBernardi - LCCC Mgr.

DISTRIBUTION:

+ S. Pitts - LCCP Safety Director
+ M. Hayes - "
+ P. Carrico - LCCP Ethyl. Plant Oper. Supt.
+ D. Friesner - " NPU " " "
+ M. Brady " Alcohol " " "
+ S. Ashby LCVCM Safety Director
M. Ashby " Oper. Supt.
+ G. Hopkins " Chief Process.
+ P. Warner LAB " "
+ K. Fogg " Safety Director
+ R. Johnson " Process. Supt.
+ M. Heller PED
+ P. Fetizanan PED
ED TAYLOR

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AGENDA
MODELING MEETING
~~FRIDAY, NOVEMBER 21~~
~~9:00 - 12:00~~

Tuesday, Aug. 19
9:00 - 12:00

I. Introduction Overview

Tom Grumbles

A. Purpose of Meeting

15

B. Modeling Needs/Uses

C. Regulatory Concerns (TSCA, ^{SARA Title III} Superfund)

II. Modeling Technology

Mary Jo Heller

15

A. Capabilities

B. Limitations

III. Vista Capabilities

Mary Jo Heller

15

A. Software Programs

B. Schedule

IV. End Products

None

Group

A. Format (Monographs, Numbers, Overlays?)

B. Uses

VI. What To Model

Tom Grumbles/

30

A. Chemical Selection

Mary Jo Heller

B. Data Needs

V. The LCCC Experience

MSH

45

A) Process Flow of Project

B) Review of Results

VI. Discussion of Action Steps/Schedule

~~At Group~~

VII. Future Plans

1

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MODELING PROJECT

GOAL

To produce data that will allow Vista to assess future releases in terms of potential for off-site concentrations of hazardous chemicals.

METHOD

Model release scenarios to give quantitative ranges of contaminant levels under specified conditions. Variables will include contaminant, release rate and points, and atmospheric conditions.

STEPS

1. Obtain capability, including evaluation of models, software, and training to model in-house.
2. Evaluate use of the modeling data for future use in release response and determine format of end-product as indicated.
3. Identify chemicals to be modeled at each plant. These should be prioritized based on hazard, volume, use, storage, and delivery (transfer) conditions. Hazard evaluation should include volatility, flammability and toxicity.
4. Based on the above choose release scenarios to evaluate off-site concentration potentials.

5. Determine criteria levels for action (notification, evacuation, etc.) for those contaminants modeled.

GENERAL CONSIDERATIONS

Many of the steps outlined can be done concurrently. The tendency will be to use intuition to pick the contaminants of concern. A consistent technique of hazard prioritization should be used to pick the chemicals to be modeled. The end result may be the same but we may be surprised. A screening method example is attached. This method was contained in EPA's Chemical Emergency Preparedness Program.

The action level will take a good deal of discussion on any specific contaminant. Basically the affect to be avoided (irritation, lung damage, etc.) and the level where those effects occur must be reviewed. Acutely toxic materials (i.e., HF or HCl) are easier to deal with than VCM, or chronic hazards.