

Record Number: 98-IV -02      Fiscal Year: 1998      Region: 04      Last  
Update:  
Name: MS Rocket Engine Test--September 97  
10/10/99

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INPUFF are available.  
FOLLOWUP ANTICIPATED:  
Region IV will discuss with MS  
MODEL CLEARINGHOUSE RECORDS INFORMATION:  
SOURCE NAME: MS Rocket Engine Test  
LOCATION: MS  
SOURCE TYPE: Rocket  
POLLUTANTS: Non Criteria  
REGULATION(S) INVOLVED: State Reg/PSD  
MET. DATA BASES (ON/OFF-SITE): unknown  
MODEL(S) USED: INPUFF, CALPUFF, ISC3

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Model Clearinghouse Information Storage and Retrieval  
System

Record Information Report

Record Number: 89-VIII-09      Fiscal Year: 1989      Region: 08  
Last Update:  
Name: Morton Thiokol-Nov 88  
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State(s): UTAH  
Pollutant(s): TSP  
PM-10  
Regulation(s): PSD  
Source(s): Open Burning  
Model(s): ISCST  
INPUFF  
PCAD  
Subject(s): Emissions Characterization  
Meteorological Monitoring  
Plume Rise  
Representativeness of Meteorological Data  
Technical Credibility of Nonguideline

#### Techniques

Time Scaling  
Urban/Rural: Rural Only  
Oral/Written: Oral  
Terrain: Low Terrain (below stack height)  
Guideline: Non-guideline  
Database: Off-site  
Involvement: Review and Comment

Record Comments:  
11/8/88-12/13/88 Several discussions/conference calls between  
the C/H & R-VIII.  
The State of UT plans to issue a PSD permit to Morton Thiokol for  
testing of  
booster rocket engines. Each test lasts about 2 minutes and  
emits about 200  
tons of PM. The modeling supporting the permit consisted of

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Date: 07/31/00

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using a modified version of ISC whereby plume rise from the nonguideline PACD model is used instead of Briggs. To get to a 24-hour concentration from the ISC estimates (assumed to be valid for 2-minutes) the estimates were divided by 720. The estimates were above the allowable increments for wind speeds less than 5 m/s; the permit states that the test burns cannot take place if wind speeds at plume level (about 10000 ft MSL) are less than 5 m/s. Issues: 1) Use of modified ISC & PCAD, 2) Permit limitation to wind speeds of 5 m/s or greater. C/H Comment: (Reflects agreement with R-VIII) 1) R-VIII will model the source with the INPUFF model, which is technically defensible for such short term releases. 2) R-VIII will provide written permission to use the nonguideline INPUFF model; UT will need to provide opportunity for public comment on the model. 3) The use of SCS (winds above 5 m/s only) is OK since it is not a stack source.

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Model Clearinghouse Information Storage and Retrieval System

## Record Information Report

Record Number: 92-IV -03      Fiscal Year: 1992      Region: 04  
Last Update:

Name: MS Rocket Testing - Sept 91

State(s):                    MISSISSIPPI

Pollutant(s):               Unspecified Non-criteria

Regulation(s):              PSD

Source(s):                  Rocket

Model(s):                    ISCST

INPUFF

PCAD

Subject(s):                  Emissions Characterization

Technical Credibility of Nonguideline

## Techniques

Time Scaling

Urban/Rural:                Rural Only

Oral/Written:                Oral

Terrain:                    Essentially Flat Terrain

Guideline:                  Guideline & Non-guideline

Database:                    Off-site