Model Clearinghouse Information Storage and Retrieval System

Record Information Report

Record Number: 99-III -01 Fiscal Year: 1999 Region: 03 Last Update:
Name: Region III Source-August 99 09/16/99

State(s): PENNSYLVANIA
Pollutant(s): SO2
Regulation(s): PSD
Source(s): Power Boiler
Model(s): ISC3
Subject(s): Plume Rise
Urban/Rural: Rural Only
Oral/Written: Oral
Terrain: Low Terrain (below stack height)
Guideline: Guideline
Database: Off-site
Involvement: Review and Comment
Record Comments:

RECORD OF COMMUNICATION
__x_TELEPHONE CALL ___MEETING ___CONFERENCE CALL ___OTHER
INFORMATION COPIES TO:
TO: D. Wilson
FROM: Ed Kashdan, private consultant
DATE: 8/30/99
TIME:
SUBJ: Region III Source
SUMMARY OF COMMUNICATION:
(Originally this 8/10/99 email went to Tom Helms at OAQPS, got forwarded around and
then referred to the Model Clearinghouse for response, on 8/30/99)
Issue:
From: TOM HELMS
To: RTPHUB.IN."ekashdan@gfnet.com"
Date: 8/21/99 3:08am
Subject: Stack Height Regulations -Reply
I am sorry that I have not gotten back to you. I just opened your e-mail. It's been a number of years since I've been involved in any stack height work. I'm forwarding your request to Dave Guinnup to see if his folks can help you out.
Tom
>>> Ed Kashdan <ekashdan@gfnet.com> 08/10/99 04:31pm >>>

We are reviewing an old PSD permit for a resource recovery facility. Is there a way to account for enhanced plume rise caused by the multiflued stack? Originally, equivalent diameter was used. The boilers produce far less than 5000 tons per year of SO2. The multiflued stack was part of the original design and plant construction. We have reviewed your Oct. 10, 1985 memo, but it does not deal directly with this issue. Please advise.
CC: RTP10.RTPTSD.GUINNUP-DAVE
C/H Comment: Unless GEP is involved the source can be modeled with the combined flue parameters. There is no need to determine an equivalent diameter unless the model requires it. The plume rise for buoyant plumes is solely determined by the gas temperature and volumetric flow rate. These parameters are easy to determine for combined flues. For further discussion the consultant was asked to call Region III.

FOLLOW UP ANTICIPATED: None
MODEL CLEARINGHOUSE RECORDS INFORMATION:
SOURCE NAME: Region III Source
LOCATION: PA
SOURCE TYPE: Power boiler
POLLUTANTS: SO2
REGULATION(S) INVOLVED: PSD
MET. DATA BASES (ON/OFF-SITE): unknown
MODEL(S) USED: ISC3