UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OCT 25 1999

OFFICE OF
AIR AND RADIATION

MEMORANDUM

SUBJECT: CAP88-PC Windows Version 2.0

FROM: Sanjib Chaki, P.E.
Environmental Engineer
Center for Federal Guidance and Air Standards
Radiation Protection Division

THRU: Julie Rosenberg, Director
Center for Federal Guidance & Air Standards

TO: Frank Marcionwski, Acting Director
Radiation Protection Division

I am writing to request your authorization to approve CAP88-PC Windows Version 2.0 Software packages as suitable for determining compliance with Clean Air Act National Emission Standards for Hazardous Air Pollutants radionuclide standards at Department of Energy facilities. The standard, 40 CFR 61.93 (a) requires that "To determine compliance with the standard, radionuclide emissions shall be determined and effective dose equivalent values to members of the public calculated using Environmental Protection Agency (EPA) approved sampling procedures, computer models CAP-88 or AIRDOS-PC or other procedures for which EPA has granted prior approval." If approved, this will benefit both the Department of Energy (DOE) facilities in demonstrating compliance and EPA in verifying compliance reports.

EPA approved the use of CAP88-PC Version 1.0 for compliance during 1992. During 1997, DOE developed a Windows version of CAP88-PC and distributed it to users on CD-ROMs and also via DOE's web site: http://www.er.gov/production/er-80/cap88 . CAP88-PC Windows Version 2.0 is a personal computer program designed to calculate effective dose equivalents as specified by 40 CFR 61.93 (a). This personal computer version uses a Windows interface which is more commonly used today. This version also has some minor changes compared to DOS version. The changes are discussed in detail in the report entitled: "CAP88 UPDATE EVALUATIONS REPORT, Chaki & Hoffmeyer, June 1999."

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The Windows version was distributed to more than twelve hundred users since 1997. The users range from DOE facilities, academic institutions, EPA regional offices and Headquarters. I have tested the Windows version, and feel confident that it produces same results as CAP88-PC.

Your approval of CAP88-PC Windows version 2.0 as suitable for determining compliance per 40 CFR 61.93(a) is requested. If approved, the software package along with the user's guide and frequently asked questions will be posted on an EPA web site: http://www.epa.gov/radiation/assessment/cap88.html.

Concur & Date:

10/25/99

Non Concur & Date:

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