



70-1113

GE Nuclear Energy

General Electric Company
P.O. Box 780, Wilmington, NC 28402
910 675-5000

September 26, 1996

Mr. E. D. Flack
Licensing Branch, NMSS
U. S. Nuclear Regulatory Commission
Mail Stop T 8-D-14
Washington, D. C. 20555-0001

Subject: Supporting Radiological Information for License Renewal

References: (1) SNM-1097, Docket 70-1113
(2) License Renewal & Letter, R. J. Reda to E. Q. Ten Eyck, 4/5/96
(3) Letter with Enclosures, R. J. Reda to E. D. Flack, 5/6/96
(4) Phone Conversation, E. D. Flack and A. M. Mabry, 6/20/96

Dear Mr. Flack:

Pursuant to the phone conversation referenced above, GE's Nuclear Energy Production facility in Wilmington, N. C. hereby transmits the enclosed supporting information regarding radiological programs and trends to facilitate your review of our license renewal submittal. This information is intended to provide the details that you indicated would be needed to complete the review.

Enclosure 1 is a written response to three specific requests for information, and enclosure 2 is two additional charts you requested summarizing radiological trends.

Six copies of this submittal are being provided for your review. An additional copy is being sent to Region II.

Please contact me on (910) 675-5889 or Allen Mabry on (910) 675-5601, if you would like to discuss this matter further.

Sincerely,

R. J. Reda, Manager
Fuels and Facility Licensing

enclosures

cc: RJR-96-106

9610030251 960926
PDR ADOCK 07001113
C PDR

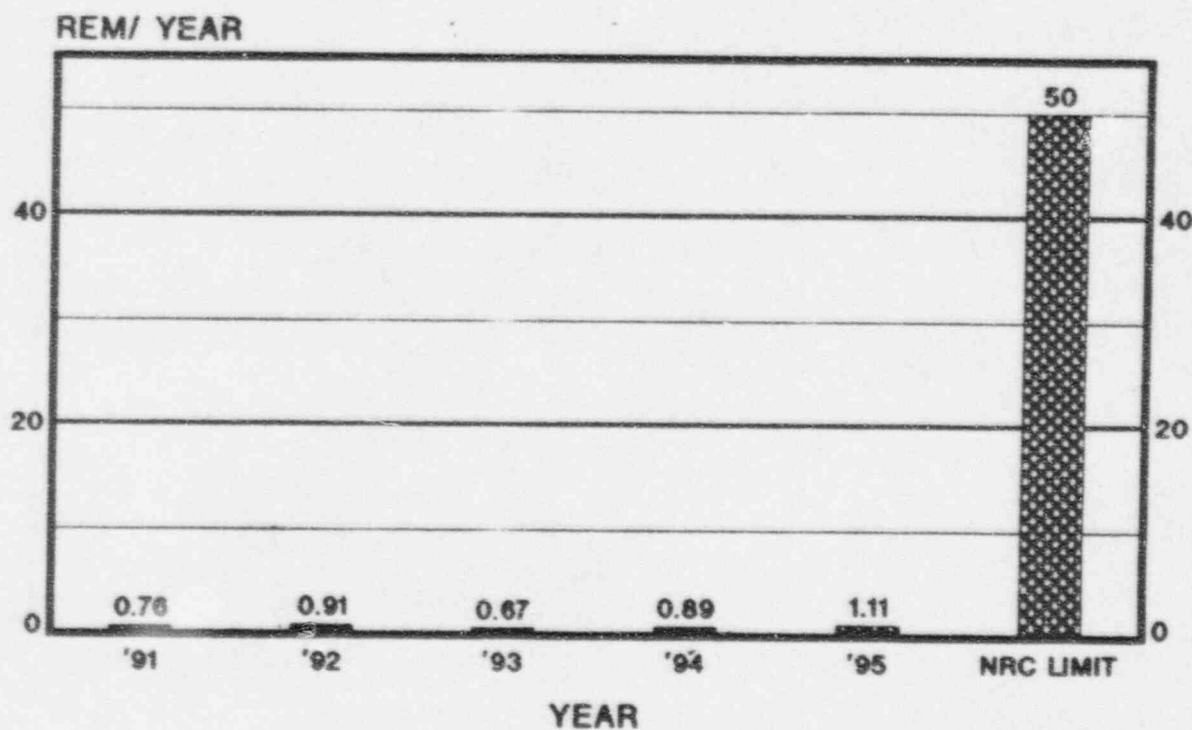
NF04
11

RESPONSES TO REQUESTS FOR INFORMATION
REGARDING RADIOLOGICAL PROGRAMS

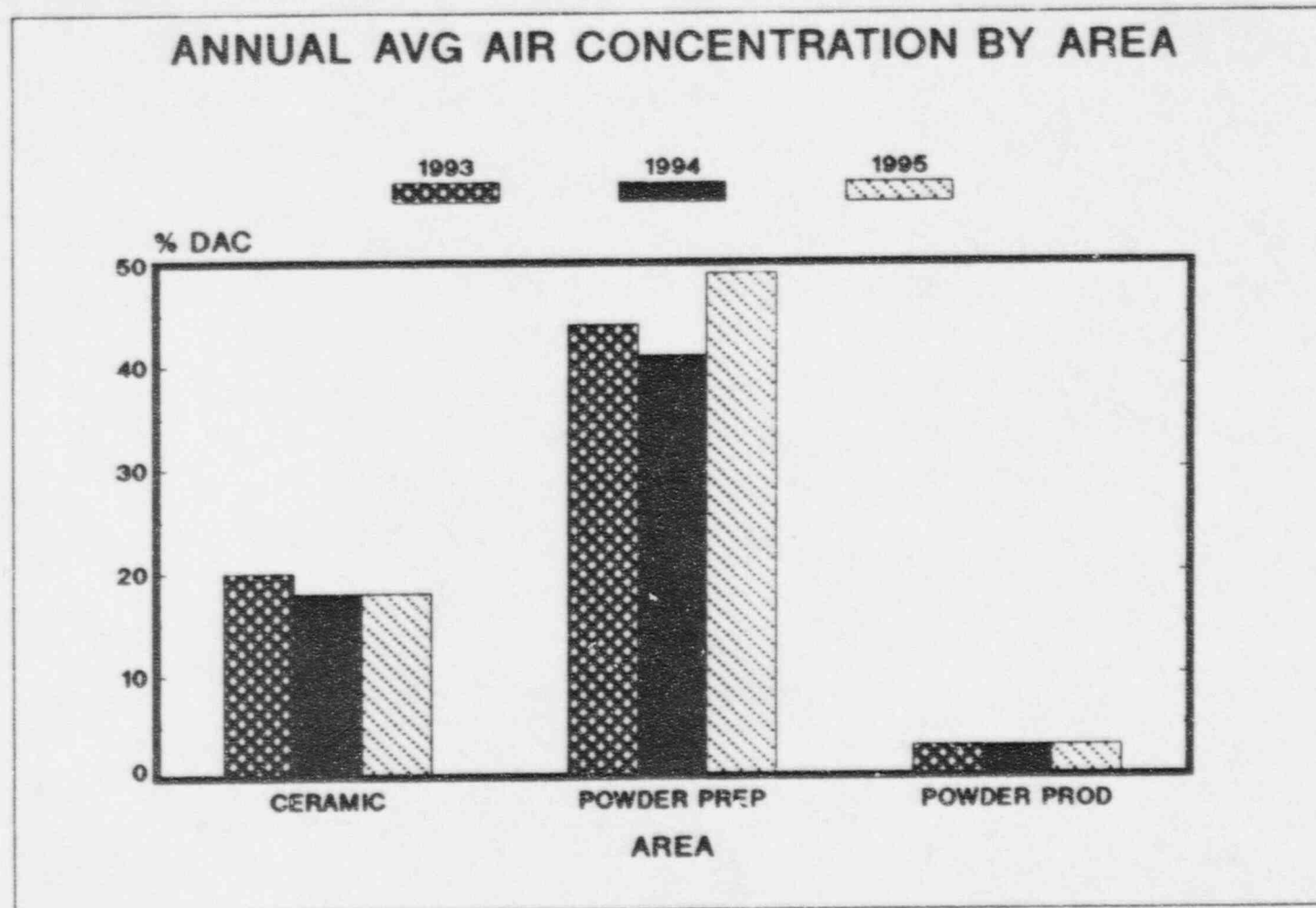
Below are the requests followed by our responses.

1. Request: Provide action levels and actions based on individual airborne exposure assignments.
Response: Work activity restrictions are imposed when an individual's exposure exceeds 1600 DAC*hr in a year. Additionally, when an individual's exposure assignment exceeds 500 DAC*hr in a quarter the individual is temporarily restricted from controlled area work, an investigation is initiated and a whole body count is scheduled.
2. Request: Provide for 1994 and 1995 the highest committed effective dose equivalent (CEDE) and the total number of individuals with a CEDE greater than 2 rem.
Response: The highest CEDEs for 1994 and 1995 were 2.08 and 2.41 rem respectively. The total number of individuals with a CEDE greater than 2 rem for 1994 and 1995 were 1 and 9 respectively.
3. Request: Provide for 1994 and 1995 the total number of lung counts performed and the highest lung burden assignments.
Response: Approximately 760 individuals were counted in 1994 and in 1995. More than 850 counts were performed in each of those years. During 1994 and 1995 restrictions of individuals occurred due to lung count results that exceeded administrative limits, but subsequent counts revealed none of the individuals had true lung burdens. No lung burdens were assigned during either year.

SKIN DOSE -- HIGHEST WORKER [1991-1995]



This chart represents the highest external skin dose assigned to any individual. The individuals with the highest external skin dose assignments typically work in the ceramic operations.



This chart represents the approximate annual average airborne concentrations as a percentage of the derived air concentration (DAC) for the three main work areas of the facility. DACs are based on the values in 10 CFR 20 appendix B, Table 1, Col. 3 (effective 1/1/94). In certain areas the DAC is adjusted based on the actual physical characteristics of the airborne uranium in accordance with 10 CFR 20.1204(c)(2). In the Ceramic areas the predominant DAC is $4\text{E-}11$ $\mu\text{Ci/cc}$ (Class Y adjusted for particle size), in the Powder Preparation areas it is $2\text{E-}11$ $\mu\text{Ci/cc}$ (Class Y) and in the Powder Production areas it is $3\text{E-}10$ $\mu\text{Ci/cc}$ (Class W).