

# AmerGen<sup>SM</sup>

An Exelon Company

Clinton Power Station  
R. R. 3, Box 228  
Clinton, IL 61727

U-603719  
March 21, 2005

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

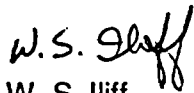
Clinton Power Station  
Facility Operating License No. NPF-62  
NRC Docket No. 50-461

Subject: Annual Occupational Radiation Exposure Report for Clinton Power Station

In accordance with Section 5.6.1 of the Clinton Power Station Technical Specifications, AmerGen Energy Company, LLC (AmerGen) is submitting the Annual Occupational Radiation Exposure Report for the period of January 1, 2004, through December 31, 2004, for the Clinton Power Station. The attachment to this letter provides the required information.

Questions regarding this information may be directed to Mr. Ron Croxton, Radiation Protection Technical Support Manager, at 217-937-3240.

Respectfully,



W.S. Iliff  
Regulatory Assurance Manager

EET/blf

Attachment

cc: Clinton Power Station Project Manager – NRR  
Regional Administrator – NRC Region III  
NRC Senior Resident Inspector – Clinton Power Station  
Director, Office of Nuclear Regulatory Research  
Illinois Emergency Management Agency – Division of Nuclear Safety

IES6

### **Report of Personnel and Man-Rem by Work and Job Function**

This report is a tabulation of the number of station, utility and other personnel (such as contractors) who received exposures greater than 100 mrem/year and their associated man-rem exposure according to work and job functions for the year 2004.

The work and job function grand totals for personnel greater than 100 mrem/year are different than the actual number of personnel at the bottom of the report, because an individual may perform work under more than one work or job function during the year.

The total man rem is based on estimated exposure.

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A description of Special Plant Maintenance performed in 2004 is as follows:

Radiation Work Permit 10002841, Drywell Reactor Water Cleanup System work, located in the Drywell basement. This work included bottom head drain line and stem leak-off line removal, and replacement. The work documents are Work Orders (WOs), 470353, 502186, and 502187.

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Reporting Year: 2004

CLINTON POWER STATION

# PERSONNEL (>100 MREM)

TOTAL MAN-REM

WORK & JOB FUNCTION	STATION	UTILITY	CONTRACT	STATION	UTILITY	CONTRACT
<b>Reactor Operations and Surveillance</b>						
Maintenance and Construction	69	0	151	3.376	0	2.746
Operations	41	0	1	6.461	0	0.018
Health Physics and Lab	25	0	9	1.447	0	0.798
Supervisory and Office Staff	12	2	3	0.085	0.043	0.154
Engineering Staff	2	0	1	0.019	0	0.085
<b>Routine Plant Maintenance</b>						
Maintenance and Construction	79	4	445	32.596	0.415	127.921
Operations	38	0	1	5.237	0.000	0.435
Health Physics and Lab	32	3	34	10.667	0.245	8.301
Supervisory and Office Staff	16	1	4	3.403	0.001	0.071
Engineering Staff	4	0	2	0.318	0.000	0.623
<b>Inservice Inspection</b>						
Maintenance and Construction	16	0	44	0.713	0.000	6.917
Operations	16	0	0	3.840	0.000	0.000
Health Physics and Lab	9	0	10	0.319	0.000	0.660
Supervisory and Office Staff	7	0	2	1.031	0.000	0.181
Engineering Staff	2	1	2	0.125	0.134	0.062
<b>Special Plant Maintenance</b>						
Maintenance and Construction	11	1	68	2.685	0.590	14.642
Operations	3	0	1	0.324	0.000	0.224
Health Physics and Lab	2	1	10	0.158	0.100	1.958
Supervisory and Office Staff	2	0	0	0.145	0.000	0.000
Engineering Staff	0	1	0	0.000	0.019	0.000
<b>Waste Processing</b>						
Maintenance and Construction	2	0	0	0.008	0.000	0.000
Operations	9	0	0	0.030	0.000	0.000
Health Physics and Lab	13	0	4	0.099	0.000	0.138
Supervisory and Office Staff	3	0	0	0.007	0.000	0.000
Engineering Staff	1	0	0	0.002	0.000	0.000
<b>Refueling Operations</b>						
Maintenance and Construction	25	1	174	1.052	0.108	22.735
Operations	7	0	1	1.184	0.000	0.005
Health Physics and Lab	19	2	20	1.079	0.344	1.949
Supervisory and Office Staff	5	0	2	0.405	0.000	0.135
Engineering Staff	1	0	1	0.003	0.000	0.046
<b>GRAND TOTALS:</b>	<b>471</b>	<b>17</b>	<b>990</b>	<b>76.818</b>	<b>1.999</b>	<b>190.804</b>

Actual Number of Personnel > 100 mrem: 767