

ROBERT E. GINNA STATION
STANDARD REPORT OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION
FOR THE YEAR OF 1983
(FOR PERSONNEL HAVING > 100 mRem)

WORK & JOB FUNCTION

REACTOR OPERATIONS & SURVEILLANCE	NUMBER OF PERSONNEL			TOTAL MAN - REM		
	CONTRACT WORKERS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACT WORKERS	STATION EMPLOYEES	UTILITY EMPLOYEES
MAINTENANCE PERSONNEL	149	33	138	8.40	6.59	3.21
OPERATING PERSONNEL	0	30	1	0.00	13.05	0.85
HEALTH PHYSICS PERSONNEL	40	11	1	4.75	4.56	0.02
SUPERVISORY PERSONNEL	22	7	4	1.76	2.58	0.40
ENGINEERING PERSONNEL	14	1	5	0.75	0.12	0.15

ROUTINE MAINTENANCE

MAINTENANCE PERSONNEL	146	34	191	18.17	6.41	8.14
OPERATING PERSONNEL	0	20	0	0.00	0.27	0.00
HEALTH PHYSICS PERSONNEL	36	11	1	3.39	1.27	0.07
SUPERVISORY PERSONNEL	16	7	2	0.66	0.40	0.02
ENGINEERING PERSONNEL	8	1	4	0.04	0.01	0.16

INSERVICE INSPECTION

MAINTENANCE PERSONNEL	8	17	56	0.73	1.30	3.34
OPERATING PERSONNEL	0	1	0	0.00	0.01	0.00
HEALTH PHYSICS PERSONNEL	13	5	0	0.28	0.09	0.00
SUPERVISORY PERSONNEL	9	5	2	0.35	0.26	0.12
ENGINEERING PERSONNEL	0	0	1	0.00	0.00	0.05

SPECIAL MAINTENANCE

MAINTENANCE PERSONNEL	269	34	263	282.71	15.89	426.03
OPERATING PERSONNEL	0	29	1	0.00	6.65	0.02
HEALTH PHYSICS PERSONNEL	42	11	1	32.61	7.63	1.12
SUPERVISORY PERSONNEL	30	8	5	22.25	2.46	4.12
ENGINEERING PERSONNEL	31	1	6	14.06	0.05	3.79

WASTE PROCESSING

MAINTENANCE PERSONNEL	45	22	29	8.67	2.07	0.41
OPERATING PERSONNEL	0	6	0	0.00	0.10	0.00
HEALTH PHYSICS PERSONNEL	28	11	0	8.07	1.10	0.00
SUPERVISORY PERSONNEL	4	1	1	1.07	0.00	0.03
ENGINEERING PERSONNEL	2	0	2	0.31	0.00	0.01

REFUELING

MAINTENANCE PERSONNEL	23	19	26	2.91	1.17	6.35
OPERATING PERSONNEL	0	4	0	0.00	2.71	0.00
HEALTH PHYSICS PERSONNEL	18	4	0	2.22	0.07	0.00
SUPERVISORY PERSONNEL	3	2	2	0.43	0.58	0.02
ENGINEERING PERSONNEL	15	0	1	10.02	0.00	0.11

TOTALS

MAINTENANCE PERSONNEL	273	34	264	321.59	33.43	447.48
OPERATING PERSONNEL	0	30	1	0.00	22.79	0.87
HEALTH PHYSICS PERSONNEL	42	11	1	51.32	14.72	1.21
SUPERVISORY PERSONNEL	30	8	5	26.52	6.28	4.71
ENGINEERING PERSONNEL	34	1	6	25.18	0.18	4.27

GRAND TOTALS	376	83	273	424.61	77.40	458.54
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US NRC
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REACTOR REGULATION
WASHINGTON, D.C. 20555

Enclosure

June xx, 1988

NRC INFORMATION NOTICE NO. 88-XX: INTERPRETATION OF BIOASSAY MEASUREMENTS;
ASSESSMENT OF INTAKES

Addressees:

All nuclear power reactor facilities holding an operating license or a construction permit, research and test reactors, fuel facilities, and Priority 1 material licensees.

Background and Purpose:

This information notice is intended to correct an NRC position in Information Notice 82-18 (Reference 1) that was in conflict with the NRC staff position published in several regulatory guides. The NRC position in Information Notice 82-18 indicates that, for purposes of determining compliance with the 10 CFR Part 20 intake limits, only the methodology of the International Commission on Radiological Protection (ICRP) Publication 2 (Reference 2) can be used in assessing intakes of radioactive material using bioassay data. Another purpose of this 1988 information notice is to call attention to a comprehensive new manual prepared for the NRC that can be used to compute intakes from both in vivo and in vitro bioassay measurements, "Interpretation of Bioassay Measurements," (NUREG/CR-4884). It is expected that recipients will review the information in this information notice for applicability to their programs. However, suggestions contained in this information notice do not constitute NRC requirements; therefore, no specific action or written response is required.

Discussion:

The NRC staff position with respect to bioassay is presented in NRC Regulatory Guides 8.9, 8.11, 8.20, 8.22, and 8.26. In general, the position is that assessment of individual intake using bioassay data should be based on the best data and models available for that purpose.

IE Information Notice 82-18, "Assessment of Intakes of Radioactive Material by Workers," issued in 1982, pointed out that the present NRC limits on intake are based on ICRP Publication 2 and concluded with the NRC position: "The NRC will continue to use the ICRP Publication 2 methodology in determining compliance with 10 CFR 20 until the revision of 10 CFR 20 has been published as a final rule."

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IN 88-XX
June xx, 1988
Page 2 of 3

The NRC staff now recognizes that this position in Information Notice 82-18 (1) is incorrect in implying that only ICRP Publication 2 can be used for assessing bioassay data to determine compliance with 10 CFR Part 20 and (2) conflicts with the NRC staff position expressed in relevant regulatory guides. Although ICRP Publication 2 provides the basis for current 10 CFR Part 20 limits on intake (based on long-term, chronic exposures), it does not always provide an adequate basis for assessing individual intake because it does not provide information on body content or excreta following single (acute) intake or information applicable to an individual differing from the "standard man" defined in ICRP Publication 2. This inadequacy is recognized in ICRP Publications 10 and 10A (References 3 and 4), which are endorsed in Regulatory Guide 8.9 and which are mentioned in Information Notice 82-18 as being used by the NRC to evaluate bioassay data to determine compliance with regulatory requirements.

The NRC staff became aware of the problem with the NRC position in Information Notice 82-18 as a result of reviews and discussions during (its draft stage) of a draft report, "Interpretation of Bioassay Measurements" (Reference 5), prepared by Brookhaven National Laboratory (BNL) under an NRC contract. This report (which was published in July 1987) is a comprehensive manual that, for the first time, provides information on how to compute intakes from both in vivo and in vitro bioassay measurements and contains tables for the interpretation of bioassay results, in terms of intake, for several hundred nuclides. This manual conforms to the positions in existing regulatory guides, and the computed intake retention fractions in the report have been verified by comparison with results generated by other computer models using the same set of assumptions (REMEDY and DOSEDAY/DOSEYR). The use of this report, with its straightforward methodology, could help licensees avoid the difficulties associated with the use of the methodology in ICRP Publication 2.

The NRC plans to issue, for comment, a draft regulatory guide that would endorse the BNL report for use in assessing intakes of radioactive material from the results of bioassay measurements. In the interim, use of this report for the interpretation of bioassay measurements is consistent with the regulatory positions in existing regulatory guides on bioassay; therefore, the report may be used for this purpose. Of course, the limits on intake given in 10 CFR 20.103 and based on ICRP Publication 2 continue to apply until they are changed in a revision of 10 CFR Part 20. Furthermore, to the extent it is applicable, ICRP Publication 2 may continue to be used for assessing intakes of radioactive material for comparison with the intake limits of 10 CFR Part 20.

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No specific action or written response is required by this information notice. If you have any questions about this matter, please contact the regional administrator of the appropriate regional office or this office.

Charles E. Rossi, Director
Division of Operational Events Assessment
Office of Nuclear Reactor Regulation

Technical Contacts: *John D. Buchanan*
~~G. D. T. Lynch~~, NRR
(301) 492-~~3447~~ 1097
Cheryl A. Trotter
~~Donald A. Coul~~, NMSS
(301) 492-3422
Barbara G. Brooks, RES
(301) 492-3738

References

- (1) IE Information Notice 82-18, "Assessment of Intakes of Radioactive Material by Workers," June 11, 1982.
- (2) "Report of Committee II on Permissible Dose for Internal Radiation," Recommendations of the International Commission on Radiological Protection, ICRP Publication 2, 1959.
- (3) "Report of Committee IV on Evaluation of Radiation Doses in Body Tissues from Internal Contamination due to Occupational Exposure," Recommendations of the International Commission on Radiological Protection, ICRP Publication 10, 1968.
- (4) "The Assessment of Internal Contamination Resulting from Recurrent or Prolonged Uptakes; A Report of ICRP Committee 4," Recommendations of the International Commission on Radiological Protection, ICRP Publication 10A, 1969.
- (5) Edward T. Lessard, Xia Yihua, Kenneth W. Skrabble, et al., "Interpretation of Bioassay Measurements," NUREG/CR-4884 (BNL-NUREG-52063), July 1987.

Attachment: List of Recently Issued NRC Information Notices

Distribution:
Docket 50-244
PD I-3 Reading
M. Rushbrook
A. Johnson

MAY 31 1989

DOCKET NO(S). 50-244
EIS Review Coordinator
EPA Region II
26 Federal Plaza
New York, New York 10276

SUBJECT: ROCHESTER GAS & ELECTRIC CORPORATION - GINNA NUCLEAR PLANT

The following documents concerning our review of the subject facility are transmitted for your information.

- ☐ Notice of Receipt of Application, dated _____.
- ☐ Draft/Final Environmental Statement, dated _____.
- ☐ Notice of Availability of Draft/Final Environmental Statement, dated _____.
- ☐ Safety Evaluation Report, or Supplement No. _____ dated _____.
- ☐ Environmental Assessment and Finding of No Significant Impact, dated _____.
- ☐ Notice of Consideration of Issuance of Facility Operating License or Amendment to Facility Operating License, dated _____.
- ☐ Bi-Weekly Notice; Applications and Amendments to Operating Licenses Involving No Significant Hazards Considerations, dated _____ [see page(s)] _____.
- ☐ Exemption, dated _____.
- ☐ Construction Permit No. CPPR-_____, Amendment No. _____ dated _____.
- ☐ Facility Operating License No. _____, Amendment No. _____ dated _____.
- ☐ Order Extending Construction Completion Date, dated _____.
- ☒ Monthly Operating Report for April 1989 transmitted by letter dated 5/15/89.
- ☐ Annual/Semi-Annual Report- _____
_____ transmitted by letter dated _____.

Office of Nuclear Reactor Regulation

Enclosures:
As stated

CC: with enclosure
see attached sheet

OFFICE	NRR/PP I/II/PD I-3					
SURNAME	MRushbrook					
DATE	5/31/89					

ROCHESTER GAS & ELECTRIC COMPANY

-2-

R. E. GINNA NUCLEAR POWER PLANT

Chief, Division of Ecological Services
Bureau of Sport Fisheries & Wildlife
U. S. Department of the Interior
Washington, D. C. 20240

Director, Office of Ecology
and Conservation
National Oceanic & Atmospheric Administration
U. S. Department of Commerce
1335 East West Highway
Silver Spring, Maryland 20910

Dr. William Cunningham
FDA Research Chemist
Bureau of Standards & Technology
Reactor Building 235, Room B-103
Gaithersburg, Maryland 20899

Distribution:
Docket 50-244
PD I-3 Reading
M. Rushbrook
C. Stahle

AUG 25 1988

DOCKET NO(S). 50-244
EIS Review Coordinator
EPA Region II
26 Federal Plaza
New York, New York 10276

SUBJECT: ROCHESTER GAS & ELECTRIC CORPORATION - R. E. GINNA NUCLEAR PLANT

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- ☐ Exemption, dated _____.
- ☐ Construction Permit No. CPPR-_____, Amendment No. _____ dated _____.
- ☐ Facility Operating License No. _____, Amendment No. _____ dated _____.
- ☐ Order Extending Construction Completion Date, dated _____.
- ☒ Monthly Operating Report for July 1988 transmitted by letter dated 8/12/88.
- ☐ Annual/Semi-Annual Report- _____
_____ transmitted by letter dated _____.

Office of Nuclear Reactor Regulation

Enclosures:
As stated

cc: with enclosure
See attached sheet

OFFICE	NRR/RP, I/II/PD I-3					
SURNAME	MRushbrook					
DATE	8/25/88					

Rochester Gas & Electric Company -2-

R. E. Ginna Nuclear Power Plant

cc:

Chief, Division of Ecological Services
Bureau of Sport Fisheries & Wildlife
U. S. Department of the Interior
Washington, D. C. 20240

Director, Office of Ecology and
Conservation
National Oceanic & Atmospheric Administration
U. S. Department of Commerce, Room 6800
14th and Constitution Avenue, N. W.
Washington, D. C. 20230

Dr. William Cunningham
FDA Research Chemist
National Bureau of Standards
Reactor Building 235, Room B-108
Gaithersburg, Maryland 20899

Distribution:
Docket 50-244
PD I-3 Reading
M. Rushbrook
C. Stahle

JUL 28 1988

DOCKET NO(S). 50-244
EIS Review Coordinator
EPA Region II
26 Federal Plaza
New York, New York 10276

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- ☐ Construction Permit No. CPPR-_____, Amendment No. _____ dated _____.
- ☐ Facility Operating License No. _____, Amendment No. _____ dated _____.
- ☐ Order Extending Construction Completion Date, dated _____.
- ☒ Monthly Operating Report for June 1988 transmitted by letter dated July 12, 1988.
- ☐ Annual/Semi-Annual Report- _____
_____ transmitted by letter dated _____.

Office of Nuclear Reactor Regulation

Enclosures:
As stated

cc: with enclosure
See attached sheet

OFFICE	NRR/RP. I/II/PD. I-3					
SURNAME	MRushbrook					
DATE	7/28/88					

Rochester Gas & Electric Company -2-

R. E. Ginna Nuclear Power Plant

cc:

Chief, Division of Ecological Services
Bureau of Sport Fisheries & Wildlife
U. S. Department of the Interior
Washington, D. C. 20240

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