

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)	
)	
CAROLINA POWER & LIGHT COMPANY)	Docket Nos. 50-400 OL
AND NORTH CAROLINA EASTERN)	50-401 OL
MUNICIPAL POWER AGENCY)	
)	
(Shearon Harris Nuclear Power)	
Plant, Units 1 and 2))	

APPLICANTS' RESPONSE TO WELLS EDDLEMAN'S
REQUEST FOR PRODUCTION OF DOCUMENTS ON
CONTENTIONS 29 AND 37B TO APPLICANTS CAROLINA
POWER & LIGHT COMPANY, et al. (FOURTH SET)

Applicants Carolina Power & Light Company and North Carolina Eastern Municipal Power Agency, pursuant to 10 C.F.R. § 2.740b, hereby respond to Wells Eddleman's Request for Production of Documents (Fourth Set) on Contentions 29 and 37B to Applicants Carolina Power & Light Company, et al., by stating that the following documents identified in Applicants' Response to Wells Eddleman's General Interrogatories and Interrogatories on Contentions 29 and 37B to Applicants (Fourth Set) will be made available to Mr. Eddleman for inspection and copying:

INTERROGATORY

DESCRIPTION

29-9(b)(ii)(dd)
29-9(d)

Procedure #RC-ER-3, "Operation and Calibration of SHNPP Environmental Air Samplers"

<u>INTERROGATORY</u>	<u>DESCRIPTION</u>
29-9 (b) (ii) (dd)	Procedure #RC-ER-31, "Radiological Environmental Monitoring Program for SHNPP"
29-9 (b) (ii) (dd)	Procedure #RC-ER-4, "Operation of the SHNPP Water Samplers"
29-9 (b) (ii) (dd)	Procedure #RC-ER-12, "Determination of Gross Alpha and Gross Beta Activities in Environmental Samples"
29-9 (b) (ii) (dd)	Procedure #RC-ER-2, "Calibration/ Operation of the ND4420 Ge(Li) Gamma Spectroscopy System"
29-9 (b) (ii) (dd)	Procedure #RC-ER-29, "Calibration/ Operation of the ND6685 Multi-channel Analyzer"
29-9 (b) (ii) (dd)	Procedure #RC-ER-32, "Determination of Gamma Activity in Environmental Samples"
29-9 (b) (ii) (dd)	Procedure #RC-ER-15, "Calibration/ Operation of the Beta-Gated NaI System"
29-9 (b) (ii) (dd)	Procedure #RC-ER-8, "Quality Control in the Environmental Radiological Laboratory"
29-9 (b) (ii) (dd)	Procedure #RC-ER-20, "Administrative Procedure for the Control and Retention of Records Related to Environmental Surveillance Programs"
29-9 (b) (ii) (dd)	Procedure #RC-ER-19, "Reporting Anomalous Results"
29-9 (b) (ii) (dd)	Procedure #RC-ER-21, "Calibration of Analytical and Top Loading Balances"

INTERROGATORY

DESCRIPTION

29-9 (b) (ii) (dd)	Procedure #RC-ER-26, "Training Procedure for New Technicians in the Radiological Environmental Laboratory"
29-11 (c)	NUREG-0737, "Clarification of TMI Action Plan Requirements"
29-11 (c)	Regulatory Guide 1.97, Revision 3, "Instrumentation for Light-Water-Cooled Nuclear Power Plants to Assess Plant and Environs Conditions During and Following an Accident"
29-11 (c)	American National Standards, Inc., <u>American National Standard Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities</u> , ANSI N.13.1 (1969)
29-12 (a)	NUREG-0472, "Radiological Effluent Technical Specifications for PWRs"
29-13 (a) 29-20 (c)	NUREG-0017, "Calculation of Releases of Radioactive Material in Gaseous and Liquid Effluents for PWRs"
29-14 (a)	Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 C.F.R. 50, Appendix I"
29-15 (b)	Federer, C.M., Hollander, J.M., Perlman, I., <u>Table of Isotopes</u> , John Wiley & Sons, Inc., New York (6th Edition)
29-17 (e)	Seymour L. Hess, Professor of Meteorology, Florida State University, <u>Introduction to Theoretical Meteorology</u> (1959)

INTERROGATORY

DESCRIPTION

29-19 (a)	"Iodine Species in Reactor Effluents and in the Environment" (EPRI.NP-1269)
29-24 (a)	Regulatory Guide 1.140, "Design, Testing, and Maintenance Criteria for Normal Ventilation Exhaust System Air Filtration and Adsorption Units of Light-Water-Cooled Nuclear Power Plants"
29-28 (a) - (m)	Regulatory Guide 1.26, "Quality Group Classifications and Standards for Water-, Steam- and Radioactive-Waste-Containing Components of Nuclear Power Plants"
29-28 (a) - (m)	Regulatory Guide 1.143, "Design Guidance for Radioactive Waste Management Systems, Structures, and Components Installed in Light-Water-Cooled Nuclear Power Plants"
29-29 (c)	NUREG CR-2157, "Occurrence and Implication of Radiation Dose Rates Effects for Materials Aging Studies"
29-31	Analytical Process Instruments, Inc., <u>Instruction Manual Model NRC-2000 Nuclear Air Sampler</u> (Preliminary)
29-31	Hinds International Inc., <u>Hydragard Automatic Liquid Samplers User Manual</u>
37B-6 (c)	United Nations Scientific Committee on the Effects of Atomic Radiation, <u>Ionizing Radiation: Sources and Biological Effects</u> , Report to the General Assembly, United Nations (1982)

INTERROGATORY

DESCRIPTION

37B-6 (c)
37B-8 (k) - (m)

International Commission on Radiation Protection, "Report of the Task Group on Nonstochastic Effects of Radiation" (1983)

37B-6 (c), (e), (g)
37B-7 (a) - (f)

International Commission on Radiation Protection, "Problems Involved in Developing and Index of Harm," ICRP Publication 26, Annals of the ICRP, Vol. 1, No. 3, Pergamon Press, New York (1977)

37B-6 (e), (g) - (k), (u) - (v)
37B-7 (a) - (f)
37B-8 (k) - (m), (n) - (o)

Committee on the Biological Effects of Ionizing Radiation, The Effects on Populations of Exposure to Low Levels of Ionizing Radiation: 1980, National Academy Press, Washington, D.C.

37B-6 (g)
37B-7 (a) - (f)
37B-8 (k) - (m)

National Council on Radiation Protection and Measurement Report No. 64, "Influence of Dose and Its Distribution in Time of Dose-Response Relationships for Low-LET Radiations," NCRP, Washington, D.C. (1980)

37B-6 (e), (g)
37B-7 (a) - (f), (j)
37B-8 (k) - (m), (n) - (o)

United Nations Scientific Committee on the Effects of Atomic Radiation, Ionizing Radiation: Sources and Biological Effects, Report to the General Assembly, United Nations (1977)

37B-7 (a) - (f)

Committee on the Biological Effects of Ionizing Radiation, The Effects on Populations of Exposure to Low Levels of Ionizing Radiation, National Academy Press, Washington, D.C. (1972)

37B-8 (k) - (m)

Smith, P.G., and Doll, R., "Mortality Among Patients with Ankylosing Spondylitis after a Single Treatment Course of X-rays," Br. Med. J. 284; 449 (1982)

INTERROGATORY

DESCRIPTION

37B-8 (k) - (m)	Beebe, G.W., "The Atomic Bomb Survivors and the Problem of Low-Dose Radiation Effects," <u>Am. J. Epidemiol.</u> 114:761 (1981)
37B-8 (k) - (m)	Beebe, G.W., Kato, H., and Land, C.E., "Studies of the Mortality of A-Bomb Survivors, 6. Mortality and Radiation Dose, 1950-1974," <u>Radiat. Res.</u> 75:138-201 (1978)
37B-8 (k) - (m)	Bross, I.D.J., and Natarjan, N., "Leukemia from Low-Level Radiation: Identification of Susceptible Children," <u>New England J. of Med.</u> 287:107-110 (1972)
37B-8 (k) - (m)	Bross, I.D.J. and Natarjan, N., "Genetic Damage from Diagnostic Radiation," <u>J. Amer. Med. Assoc.</u> 237:2399-2401 (1977)
37B-8 (k) - (m)	Bross, I.D.J., Ball, N., Rvepko, T., Laws, R.E., "Preliminary Report on Radiation and Heart Disease," <u>J. Med.</u> Vol. 9:3-15 (1978)
37B-8 (k) - (m)	Smith, P.G., Pike, M.C., and Hamilton, L.D., "Multiple Factors in Leukaemogenesis," Letter to Editor, <u>Brit. Med. J.</u> 2:482-483 (1973)
37B-8 (k) - (m)	General Accounting Office. Report to the Congress of the United States, Problems in Assessing the Cancer Risks of Low-Level Ionizing Radiation Exposure. GAO Publication January 1981, Washington

INTERROGATORY

DESCRIPTION

37B-8 (n) - (o)

President's Commission on the Accident at Three Mile Island. Staff Reports to the President's Commission on the Accident at Three Mile Island. Reports of the Public Health Service and Safety Task Force, U.S. Government Printing Office, Washington, D.C. (1979)

37B-8 (n) - (o)

Houts, P.S., Miller, R.W., Tokuhata, G.K., Ham, K.S., "Behavioral Impact of the Three Mile Island Nuclear Incident," Report Submitted to the TMI Advisory Panel on Health Research Studies of the Pennsylvania Department of Health (1980)

37B-8 (n) - (o)

Fabrikant, J.I., "Health Effects of the Accident at Three Mile Island," Health Physics 40:151-161 (1981)

37B-8 (n) - (o)

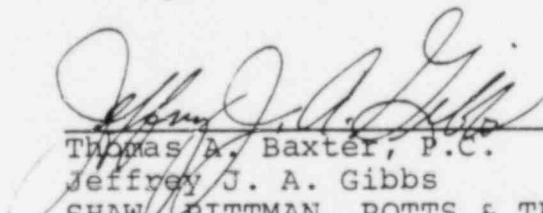
Fabrikant, J.I., "The Effects of the Accident at Three Mile Island on the Mental Health and Behavioral Responses of the General Population and Nuclear Workers," Health Physics, 42 (1983)

37B-8 (n) - (o)

Bromet, E., "Preliminary Report on the Mental Health of Three Mile Island Residents," Pittsburgh, Western Psychiatric Institute and Clinic (1980)

The requested documents will be made available at the Energy and Environmental Center, Route 1, New Hill, North Carolina 27602, during CP&L business hours (or such other mutually agreeable time). Appointments to inspect the documents may be arranged by telephoning Hill Carrow at 836-6839, at least 24 hours before the requested inspection. Applicants will maintain the requested documents assembled in Carolina Power & Light Company offices and available for inspection by Mr. Eddleman, for a reasonable time (i.e., through September 19, 1983), after which they will be returned to their place of origin.

Inspected documents which Mr. Eddleman wishes to have copied will be reproduced by CP&L on a schedule compatible with other demands for duplicating equipment. A CP&L employee will be available during the inspection in order to receive any requests for copying. Copies of such documents will then be furnished to Mr. Eddleman upon payment of 7 cents per page, to meet CP&L's cost of reproduction.



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