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Docket Nos. 50-348
and 50-364

Mr. F. L. Clayton
Senior Vice President
Alabama Power Company
Post Office Box 2641
Birmingham, Alabama 35291

Dear Mr. Clayton:

SUBJECT: GUIDANCE FOR REPORTING OFF-SITE RADIATION DOSES
JOSEPH M. FARLEY NUCLEAR PLANT, UNITS 1 AND 2

The standard Radiological Effluent Technical Specifications (RETS) require reporting of radiation doses to members of the public. In addition, reporting of radioactive releases and meteorological data is required. Both units at the Farley site currently have the latest RETS reporting requirements.

Other licensees, having RETS also, indicate that additional guidance is needed to clarify the reporting requirements. Regulatory Guide 1.21 addresses the issue but may be inadequate because it is not explicit and implies that the reports should provide more information than we require.

For these reasons, we have developed interim guidance for use in reporting RETS data. This guidance is enclosed for your information.

Sincerely,

ORIGINAL SIGNED

Edward A. Reeves, Project Manager
Operating Reactors Branch #1
Division of Licensing

Enclosure:
As stated

cc w/enclosure:
See next page

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OFFICE	ORB#1:DL	ORB#4:DL	ORB#1:DL				
SURNAME	Freeves:dm	GGears	SVA:na				
DATE	03/30/83	03/30/83	03/30/83				

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GUIDANCE ON
REPORTING OFF-SITE RADIATION DOSES
FROM NORMAL OPERATION OF NUCLEAR POWER PLANTS

Purpose

Off-site radiation doses from normal operation of some nuclear power plants must be reported annually to satisfy the requirements of the technical specifications. The reports are intended to demonstrate compliance with (1) the dose design objectives of 10CFR50 Appendix I, and (2) the requirements of 40CFR190. The purpose of this document is to provide guidance on the reports to simplify reporting, assure that minimum requirements are met, and provide consistency in reports from different licensees.

Report Content

The purpose of the annual report is to summarize the calculations performed during the year to show compliance with Appendix I and with 40CFR190 related tech specs. Consequently, only the maximum calculated doses to individuals need to be reported. Appendix I dose design objectives are stated both for calendar quarters and for years; thus, both should be reported. Appendix I states criteria for 3 categories of effluents (liquid, airborne iodines and particulates, and airborne noble gases); the doses should be reported accordingly. The information should be presented as indicated in Table I.

Where doses reported in Table I exceed the Appendix I criteria, an explanation should be provided.

Compliance with the 40CFR190 dose limits must be addressed explicitly. If the doses reported in Table I clearly are below the 40CFR190 limits, all that needs to be added are statements addressing doses from other fuel cycle facilities. In most cases, this requirement is satisfied by statements that there are no other fuel cycle facilities within 8 km.

Plant Name _____
 Year _____

Table 1

MAXIMUM* OFF-SITE DOSES AND DOSE COMMITMENTS
 TO MEMBERS OF THE PUBLIC

Source	Dose***, Millirems				
	1st Q	2nd Q	3rd Q	4th Q	Year**
Liquid Effluents	(1)	(5)	(9)	(13)	(17)
Airborne Effluents					
Iodines & Particulates	(2)	(6)	(10)	(14)	(18)
Noble Gases	(3)	(7)	(11)	(15)	(19)
Direct Radiation	(4)	(8)	(12)	(16)	(20)

Based on meteorology data provided in _____

*"Maximum" means the largest fraction of the corresponding Appendix I dose design objective.

**"Maximum" dose for the year may not equal the sum of the quarterly maximum doses because the doses may be to different organs or may occur at different places.

***The numbered footnotes briefly explain how each maximum dose was calculated, including the organ and the predominant pathway(s).

Example of Numbered Footnote:

1. Total body dose, primarily by fish pathway. Calculated using the reported activity and dilution volume with the assumptions of Regulatory Guide 1.111.