

MAY 4 1973

Docket No. 50-269

Duke Power Company  
ATTN: Mr. A. C. Thies  
Senior Vice President  
Production and Transmission  
422 South Church Street  
P. O. Box 2178  
Charlotte, North Carolina 28201

Change No. 2  
License No. DPR-38

Gentlemen:

Recent tests by the AEC Respiratory Studies Group at LASL of full facepiece respirators operating in the demand mode as currently approved by the U. S. Bureau of Mines have indicated that the protection factor for particulates and vapors and gases is considerably less than the expected factor of 500. As a result of these tests, technical specifications containing allowances for the use of respiratory protective equipment shall be changed to reflect a protection factor of no more than 100 for full facepiece respirators operating in the demand mode for atmosphere-supplying respirators, both airline and self-contained breathing apparatus.

Also, your procedures for determining protection factors afforded by each of the respirator types currently in use at your facility should be reviewed to determine that the protection afforded the individual wearing such respiratory equipment is at least the protection factor assigned the particular respiratory equipment by your technical specifications. If the actual protection factor is less than that given in your technical specification, you should take corrective action to either repair your respiratory equipment, replace the defective equipment or reduce the allowable protection factor assigned to such respiratory equipment and reevaluate the exposure to any individual that used such equipment in plant activities with an assigned protection factor greater than the actual value.

*Rg*

OFFICE ▶						
SURNAME ▶						
DATE ▶						

Duke Power Company

- 2 -

MAY 4 1973

Accordingly, pursuant to Section 50.36(b) and Section 50.59 of 10 CFR Part 50, Appendix A to Operating License No. DPR-38, Technical Specification 6.7 "Radiological Controls," is revised as the enclosure to this letter. This change will be known as Change No. 2 to License DPR-38 and is effective on date of issuance.

Sincerely,

Original signed by  
R. C. DeYoung

R. C. DeYoung, Assistant Director  
for Pressurized Water Reactors  
Directorate of Licensing

Enclosure:  
Change No. 2 to License No. DPR-38

cc: William L. Porter, Esquire  
Duke Power Company  
422 South Church Street  
Charlotte, North Carolina 28201

bcc: J. R. Buchanan, ORNL  
T. B. Abernathy, DTIE

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TABLE 6.7-1

## PROTECTION FACTORS FOR RESPIRATORS

DESCRIPTION	MODES <sup>1/</sup>	PROTECTION FACTORS 2/ PARTICULATES AND VAPORS AND GASES EXCEPT TRITIUM OXIDE <sup>3/</sup>	GUIDES TO SELECTION OF EQUIPMENT BUREAU OF MINES APPROVAL SCHEDULES* FOR EQUIPMENT CAPABLE OF PROVIDING AT LEAST EQUIVALENT PROTECTION FACTORS *or schedule superseding for equipment of type listed
I. <u>AIR-PURIFYING RESPIRATORS</u> Facepiece, half-mask <u>4/</u> <u>7/</u> Facepiece, full <u>7/</u>	NP NP	5 100	21B 30 CFR 14.4(b)(4) 21B 30 CFR 14.4(b)(5); 14F 30 CFR 13
II. <u>ATMOSPHERE-SUPPLYING RESPIRATOR</u> 1. <u>Airline respirator</u> Facepiece, half-mask Facepiece, full Facepiece, full <u>7/</u> Facepiece, full Hood Suit  2. <u>Self-contained breathing apparatus (SCBA)</u> Facepiece, full <u>7/</u> Facepiece, full Facepiece, full	CF CF D PD CF CF  D PD R	100 1,000 100 1,000 <u>5/</u> See note <u>5/</u> See note  100 1,000 1,000	19B 30 CFR 12.2(c)(2) Type C(i) 19B 30 CFR 12.2(c)(2) Type C(i) 19B 30 CFR 12.2(c)(2) Type C(ii) 19B 30 CFR 12.2(c)(2) Type C(iii) <u>6/</u> <u>6/</u>  13E 30 CFR 11.4(b)(2)(i) 13E 30 CFR 11.4(b)(2)(ii) 13E 30 CFR 11.4(b)(1)
III. <u>COMBINATION RESPIRATOR</u> Any combination of air- purifying and atmosphere- supplying respirator		Protection factor for type and mode of opera- tion as listed above	19 B CFR 12.2(e) or applicable schedules as listed above

1/, 2/, 3/, 4/, 5/, 6/, 7/, [These notes are on the following pages]

Date of Issuance:

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6.7-4

Change No. 2  
Licenses Jo. DPR-38

- (6) Bioassays and/or whole body counts of individuals, and other surveys, as appropriate, to evaluate individual exposures and to assess protection actually provided.
- (7) Records sufficient to permit periodic evaluation of the adequacy of the respiratory protective program.
- (e) The licensee uses equipment approved by the U. S. Bureau of Mines under its appropriate Approval Schedules as set forth in Table 6.7-1 below. Equipment not approved under U. S. Bureau of Mines Approval Schedules may be used only if the licensee has evaluated the equipment and can demonstrate by testing, or on the basis of reliable test information, that the material and performance characteristics of the equipment are at least equal to those afforded by U. S. Bureau of Mines approved equipment of the same type, as specified in Table 6.7-1 below.
- (f) Unless otherwise authorized by the Commission, the licensee does not assign protection factors in excess of those specified in Table 6.7-1 below in selecting and using respiratory protective equipment.
- (g) These specifications with respect to the provisions of 20.103 shall be superseded by adoption of proposed changes to 10 CFR 20, Section 20.103, which would make this specification unnecessary.

6.7.2 Exposure of individuals to concentrations of Argon-41 in the reactor building may be controlled in accordance with the dose limits and requirements of Section 20.101, instead of 20.103(b).