Public

.nuary 20, 1975

11 04

MAR 10 1375 >

145.1

Eqposure Levelo for Fertile Women

Health Research Group St element on Proposed AEC Regulations for the Radiation Exposure of Pertile Nomen (<u>Pederal Register</u>, 1/3/75, pages 799-800)

> For further information: Andrea mricko 872-0320

> > Enclosure "F"

The AEC's proposed regulations on radiation exposure for fertile women claim to implement the National Council on Radiation Protection and Measurements (NCRP) recommendations in Report No. 39, issued January 19, 1971. Those recommendations state that fertile "women should be employed only in situations where the annual dose accumulation is unlikely to exceed 2 or 3 rems..." According to the NCRP, with such a dose limit, exposure to the fetus would probably not exceed .5 rems before a woman recognized that she was pregnant. The NCRP states that such a limit is necessary because there is a positive relationship between fetal irradiation and childhood cancer.

According to the AEC's own data, however, 11.8% of all monitored workers in 1973 were exposed to levels of radiation <u>in excess</u> of 2 rems. The AEC does not state how many of these 3.435 individuals were women workers. Thus, a significant number of women may be <u>currently</u> exposed to levels of radiation that the AEC concedes may be harmful to their embryos or fetuses.

HEALTH RESEARCH GROUP . 2000 P STREET, N.W., WASHINGTON, D.C. 20036 . (202) 872-0320

8110050428 810622 PDR FOIA WILLIAMS81-77 PDR Will the AEC proposed regulations correct "his situation? We suggest that the regulations are more window-dressing to make it appear that the AEC is taking affirmative though belated action to protect women employees. In fact, the proposed regulations are actually meaningless statements of philosophy that are virtually unenforceable because of the AEC's primary concern for the costs to the nuclear industry and secondary concern for the safety of workers under its jurisdiction.

The AEC has proposed two amendments to the current regulations. First, it has added one provision to its worker instruction regulations that would require employers to tell employees about the biological risks of radiation exposure to the fetus or embryo. The woman worker is thus placed with the burden of deciding whether or not to work at a potentially dangerous job. Clearly, a woman who is exposed to an annual done of radiation exceeding 2 rems will have difficulty evaluating the risks she is taking, in that the AEC admits that such exposure is potentially hazardous, yet does not require that such exposure be forbidden (see paragraph below). The burden of <u>insuring</u> a safe workplace should be placed on the AEC.

Second, the AEC has added one other provision to its current regulations. The current regulations already ask that licencees "make every reasonable effort to maintain radiation exposures...as far below the limits specified in this part as possible." (The current annual maximum dose level is 5 rems.) The AEC proposed regulation would add the following: "[AEC licensees] should make particular efforts to keep the radiation exposure of an embryo or fetus to the very lowest practicable

Enclosura "y"

. . .

-2-

level during the entire gestation period.... " The state of technology, as well as the costs of lowering the dose levels, are allowable considerations in determining the "lowest practicable levels," in both the current and amended regulations.

- 3-

Two observations must be made. First, neither of the new provisions for women workers are mandatory requirements. Second, both the present regulations and their amendments hinge on the nuclear industry's own assessment of its financial capability to lower the radiation exposure to a safe level. The AEC's statement of reasons accompanying the proposed regulations already alleges, without any substantiation, that it is impracticable for the nuclear industry to lower the dose limits for all workers because it would cost "large sums of money." Thus, it is clear at the outset that the AEC never genuinely expects that the nuclear industry will guarantee that the radiation exposure for all fertile women is kept telow the 2-3 rem hazard level.

Now does the AEC currently enforce the provisions requiring that the levels of exposure be kept to the "lowest practicable level?" Since costs are such a prime factor in the AEC's proposal, it is necessary to review the AEC's Regulatory Guide 8.10, "Operating Fhilosophy for Maintaining Occupational Radiation Exposures as Low as Practicable," to determine hew the validity of economic claims made by industry are evaluated by the AEC.

The Regulatory Guide states that licensee management "should be committed to maintaining exposures as low as practicable." One aspect to this "commitment" is that

Enclosure "F"

modifications to operating and maintenance procedures and to plant equipment and facilities should be made where they will substantially reduce exposures at a reasonable cost. [emphasis added.]

Management must merely demonstrate that it has sought changes and implemented improvements "where practicable." During the past year the U.S. has witnessed what results when workers rely on management "commitments" to a safe workplace -- rather than strict regulations -- as evidence has accumulated showing workers dying from cancer after exposure to such chemicals as bis-chloromethyl ether, vinyl chloride, and arsenic.

Thus, we have a situation where the AEC admits that (1) levels above 2-3 rems of reflation exposure are potentially hazardous to women of child-bearing age; (2) a special standard limiting the employment of women workers in AEC facilities would be discriminatory; but that (3) over 10% of workers are currently exposed to annual levels over 2 rems, even though current regulations require AEC licensees to keep the levels to the 'lowest practicable level." Obviously, then the voluntary requirement that AEC licensees "make every reasonable effort" to minimize exposure has not to date resulted in creating a safe workplace or <u>all</u> [i.e., male and female] employees. Only a <u>mandatory</u> requirement that AEC facilities reduce exposure levels to an enforceable numerical limit for ALL employees will result in guarantee of a safe workplace, without discriminating against women employees.

At a time when health and safety requirements are already being compromised by threats of economic depression and job lay-offs, it seems improper for a government regulatory agency

Enclosuro "7"

- 4-

to publicly state, without full disclosure or substantiation, that the nuclear industry cannot practicably afford to protect its workers from the dangers of radiation exposure. These economic claims emerge as a weak excuse for the fact that neither the AEC nor the nuclear industry is truly committed to protecting the health of all workers who are exposed to radiation. Those women workers who are employed in AEC facilities should not be fooled by the AEC's empty assurances that women will be protected by the new regulations. These women should demand that the AEC require the nuclear industry to publicly testify with full disclosure of the actual costs of implementing <u>meaningful</u> safety regulations to protect all workers. As the regulations stand now, they protect the profits of the nuclear industry while providing no additional health assurances for fertile women workers.

-13-

Enclosure "F"

CLEAR REQUES	UNITED STATES	
· · · ·	NUCLEAR REGULATORY COMMISSION	
E. ) Z ( ) G	WASHINGTON, D. C. 20565	
· · · · · · · · · · · · · · · · · · ·		

+ URANDUM FOR: Tom Rehm

FROM:

Ben Huberman

SUBJECT:

FERTILE WOMEN PAPER - ADDENDUM TO SECY-76-535 (REEM MEMO, 2-17-76)

I believe that the paper provides the additional information requested by the Commission, and adequately scores the alternatives available to the Commission.

Nevertheless, I think the paper does not do justice to the real strengths of the alternative which the paper recommends. These strengths include:

- First, while the paper adequately discusses the capability of the recommended alternative to minimize the possibility of sex discrimination in employment, the paper fails to give due emphasis to the <u>primary</u> motivation for that alternative, as for all the others; namely NRC's concern for and responsibility to provide adequate protection for the fetus, in accord with the NRCP recommendation. Thus, the paper should make clearer that the aim of the alternative is <u>primarily</u> to provide radiclogical protection, and only secondarily wprovide that protection with a minimum social impact.
- Second, it avoids the potential, which several of the other alternatives have, of shrinking the pool of skilled labor, which may cause an <u>increase</u> in total population exposure with a concomitant increase in all biological effects, including effects on fetuses. (In this connection we should not ignore the real impact of NRC's decision — whatever it may be — on the approach of other agencies responsible for radiation protection).
- Third -- and most important -- the recommended alternative is an <u>effective</u> step in further protection of the individual fetus. While it cannot, perhaps, he said to be the <u>most</u> effective alternative of those presented, it cannot be said to be <u>ineffective</u> nor should it be seen in that light. A sizeable fraction of women.

CONTACT: Al Kenneke (OPE) 634-1541

Enclosure "G"

Tom Reha

having the mine many of the terms while the somewhat greater risk doe not of pregnancy, if themselves, in the event of pregnancy, of the further the second difference of the affer and the second the at the interval in a consider the second to consider the mother alternative were 100% effective, דפרסשביים לא ברייים לא בייים אולי

Fourts, \_\_\_\_\_\_ effectiveness is dependent on the woman, instance, as in all other instance, as in this instance, as in the licensee

- mentation to hatte mosures
  - persons exposed occupationally, -inclose it sach for specific instructions to

ist, specific instruction, and vorking condition a premant known. (For example, a pregnant Assigned to monitoring and film iring an individual in those rare iring an incivition followed by times occur, that should not be in restances as a sime simes occur, that should over a sitemative would have to be and the second and th The a few months at worker which to unload a skilled worker where it would be potential will become available dannin witchin a menow of months.

In sum, with maintivest little "fort, I believe the recommended effectiveness - Nous matters a way that more fully substantiates its effectiveness -- Notice Thereast a way that more discally.

Bob Michane Re the ters E. en ander Han in

Enclosure "C"

## - 2 -

-isk. Even if only 50% of the affected

- hardly a basis to consider the