THE SECRETARY OF HEALTH AND HUMAN SERVICES
WASHINGTON, D.C. 20201

AUG - 8 2006

The Honorable Richard Cheney
President of the United States Senate
Washington, D.C. 20510

Dear Mr. President:

Pursuant to the Energy Employees Occupational Illness Compensation Program Act of 2000 (EEOICPA) and 42 C.F.R. Part 83, a petition was filed on behalf of workers from the Y-12 Plant in Oakridge, Tennessee, to be added to the Special Exposure Cohort (SEC).

On June 15, 2006, the Centers for Disease Control and Prevention's (CDC) National Institute for Occupational Safety and Health (NIOSH) presented its findings on the petition evaluation to the Advisory Board on Radiation and Worker Health ("the Board") at the Board meeting in Washington, D.C. On July 6, 2006, I received the Board's recommendation concerning this petition.

Based upon consideration of the deliberations, findings, and recommendations of the Board and concurrence by the Director, NIOSH, and also by the Director, CDC, I have designated the following class for addition to the SEC:

Department of Energy (DOE) employees or DOE contractor or subcontractor employees who were monitored or should have been monitored for:

1. thorium exposures while working in Building 9201-3, 9202, 9204-1, 9204-3, 9206, or 9212 at Y-12 for a number of work days aggregating at least 250 work days from January 1948 through December 1957, or in combination with work days within the parameters (excluding aggregate work day requirements) established for one or more classes of employees in the SEC; or

2. radionuclide exposures associated with cyclotron operations in Building 9201-2 at Y-12 for a number of work days aggregating at least 250 work days from January 1948 through December 1957, or in combination with work days within the parameters (excluding aggregate work day requirements) established for one or more classes of employees in the SEC.

The criteria and findings upon which this designation is based are provided in the enclosed report.

Please call me if you have any further questions regarding this matter.

Sincerely,

Michael O. Leavitt

Enclosure

THE SECRETARY OF HEALTH AND HUMAN SERVICES
WASHINGTON, D.C. 20201

AUG - 8 2006

The Honorable J. Dennis Hastert
Speaker of the House of Representatives
Washington, D.C. 20515

Dear Mr. Speaker:

Pursuant to the Energy Employees Occupational Illness Compensation Program Act of 2000 (EEOICPA) and 42 C.F.R. Part 83, a petition was filed on behalf of workers from the Y-12 Plant in Oakridge, Tennessee, to be added to the Special Exposure Cohort (SEC).

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Based upon consideration of the deliberations, findings, and recommendations of the Board and concurrence by the Director, NIOSH, and also by the Director, CDC, I have designated the following class for addition to the SEC:

Department of Energy (DOE) employees or DOE contractor or subcontractor employees who were monitored or should have been monitored for:

3. thorium exposures while working in Building 9201-3, 9202, 9204-1, 9204-3, 9206, or 9212 at Y-12 for a number of work days aggregating at least 250 work days from January 1948 through December 1957, or in combination with work days within the parameters (excluding aggregate work day requirements) established for one or more classes of employees in the SEC; or

4. radionuclide exposures associated with cyclotron operations in Building 9201-2 at Y-12 for a number of work days aggregating at least 250 work days from January 1948 through December 1957, or in combination with work days within the parameters (excluding aggregate work day requirements) established for one or more classes of employees in the SEC.

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Sincerely,

Michael O. Leavitt

Enclosure

HHS Designation of Additional Members of the Special Exposure Cohort

under the

Energy Employees Occupational Illness Compensation Program Act

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Designating a Class of Employees from

Y-12 Plant
Oak Ridge, Tennessee

I. Designation

I, Michael O. Leavitt, Secretary of Health and Human Services ("the Secretary"), designate the class of employees defined in Section II of this report for addition to the Special Exposure Cohort (SEC), as authorized under the Energy Employees Occupational Illness Compensation Program Act of 2000 (EEOICPA), 42 U.S.C. § 7384q.

AUG - 8 2006

Date

Michael O. Leavitt

II. Employee Class Definition

Department of Energy (DOE) employees or DOE contractor or subcontractor employees who were monitored or should have been monitored for:

(1) thorium exposures while working in Building 9201-3, 9202, 9204-1, 9204-3, 9206, or 9212 at Y-12 for a number of work days aggregating at least 250 work days from January 1948 through December 1957 or in combination with work days within the parameters (excluding aggregate work day requirements) established for one or more classes of employees in the SEC; or

(2) radionuclide exposures associated with cyclotron operations in Building 9201-2 at Y-12 for a number of work days aggregating at least 250 work days from January 1948 through December 1957 or in combination with work days within the parameters (excluding aggregate work day requirements) established for one or more classes of employees in the SEC.

III. Designation Criteria and Recommendations

Pursuant to 42 U.S.C. § 7384q, for the class defined in Section II of this report, the Secretary has determined, and the Advisory Board on Radiation and Worker Health ("the Board") has recommended, that

(1) it is not feasible to estimate with sufficient accuracy the radiation dose that the class received, and

(2) there is a reasonable likelihood that such radiation dose may have endangered the health of members of the class.

The SEC final rule states in 42 C.F.R. § 83.13(c)(1) that it is feasible in two situations to estimate the radiation dose that the class received with sufficient accuracy. First, the rule states that radiation doses may be estimated with sufficient accuracy if NIOSH has established that it has access to sufficient information to estimate the

maximum radiation dose for every type of cancer for which radiation doses are reconstructed that could have been incurred under plausible circumstances by any member of the class. Alternatively, radiation doses may be estimated with sufficient accuracy if NIOSH has established that it has access to sufficient information to estimate the radiation doses of members of the class more precisely than a maximum dose estimate.

The Board, pursuant to 42 U.S.C. § 7384q, advised the Secretary to designate the class as an addition to the SEC in a letter dated July 5, 2006 and received by the Secretary on July 6, 2006.

IV. Designation Findings

Feasibility of Estimating Radiation Doses with Sufficient Accuracy

The Secretary established the feasibility determination for the class of employees covered by this report upon the findings summarized below.

(1) There are insufficient bioassay or air sampling data to reconstruct internal thorium dose for employees who worked from January 1948 through December 1957 in buildings where thorium operations took place: buildings 9201-3, 9202, 9204-1, 9204-3, 9206, and 9212.

(2) There are insufficient bioassay or air sampling data to reconstruct internal dose for cyclotron workers (employees who worked in Building 9201-2) from January 1948 through December 1957. These workers may have accumulated substantial chronic exposures through episodic intakes of a variety of radionuclides that were produced during the cyclotron operation period.

(3) Pursuant to 42 C.F.R. § 83.13(c)(1), NIOSH determined that there is insufficient information either to estimate the maximum radiation dose for every type of cancer for which radiation doses are reconstructed that could have been incurred under plausible circumstances by any member of the class, or to estimate the radiation doses of members of the class more precisely than a maximum dose estimate.

(4) NIOSH determined that it is possible to reconstruct or bound occupationally required medical doses and external gamma, beta, and neutron doses. NIOSH also found that sufficient bioassay data from January 1948 through December 1957 are available for reconstruction of:

    a. internal doses for workers with potential for exposure to uranium or recycled uranium contaminants (plutoinium-238 (plutonium-239 in lesser quantities), neptunium-237, and technetium-99); and

b. internal doses for workers involved in plutonium operations when plutonium was enriched with the calutrons.

Health Endangerment

The Secretary established the health endangerment determination for the class of employees covered by this report upon the findings summarized below.

(1) Pursuant to 42 C.F.R. § 83.13(c)(3), NIOSH established that there is a reasonable likelihood that such radiation doses may have endangered the health of members of the class. Pursuant to 42 C.F.R. § 83.13(c)(3)(ii), NIOSH specified a minimum duration of employment to satisfy this health endangerment criterion as "having been employed for a number of work days aggregating at least 250 work days within the parameters established for this class or in combination with work days within the parameters (excluding aggregate work day requirements) established for one or more other classes of employees in the Cohort."

(2) NIOSH did not identify any evidence from the petitioners or from other resources that would establish that the class was exposed to radiation during a discrete incident likely to have involved exceptionally high level exposures, such as a nuclear criticality incident, as defined under 42 C.F.R. § 83.13(c)(3)(i).

(3) The Board concurred with the finding of NIOSH that the health of the class may have been endangered and defined the class according to the 250-work day requirement specified under 42 C.F.R. § 83.13(c)(3)(ii).

V. Effect and Effective Date of Designation

The Secretary submits this report on designation of one additional class to the SEC for review by Congress, pursuant to 42 U.S.C. §§ 7384*l*(14)(C)(ii) and 7384q(c)(2)(A), as amended by the Ronald W. Reagan National Defense Authorization Act for Fiscal Year 2005, Pub. L. No. 108-375 (codified as amended in scattered sections of 42 U.S.C.). Pursuant to 42 U.S.C. § 7384*l*(14)(C)(ii), as amended by the Ronald W. Reagan National Defense Authorization Act for Fiscal Year 2005, Pub. L. No. 108-375 (codified as amended in scattered sections of 42 U.S.C.), the designation in this report will become effective 30 days after the date of this report's submission to Congress "unless Congress otherwise provides."

VI. Administrative Review of Designation

The health endangerment determination of the designation provided in this report may be subject to an administrative review within HHS, pursuant to 42 C.F.R. § 83.18(a). On the basis of such a review, if the Secretary decides to expand the class of employees covered by this designation, the Secretary would transmit a supplementary report to Congress providing the expanded employee class definition and the criteria and findings on which the decision was based.