



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

June 3, 2016

The Honorable Joseph R. Biden, Jr.
President of the United States Senate
Washington, DC 20510

Dear Mr. President:

Pursuant to the Energy Employees Occupational Illness Compensation Program Act of 2000 and 42 C.F.R. pt. 83, a petition was filed on behalf of workers who were employed at Lawrence Livermore National Laboratory in Livermore, California, to be added to the Special Exposure Cohort (SEC).

The Centers for Disease Control and Prevention's (CDC) National Institute for Occupational Safety and Health (NIOSH) evaluated the petition and presented its findings to the Advisory Board on Radiation and Worker Health (Board) on March 24, 2016. The Board considered the petition, and on May 4, 2016, I received the Board's recommendation concerning this petition (SEC 00229). I have also received the deliberations, findings, and recommendations of the Director of NIOSH and the Director of CDC. Based on this information, I have designated the following class for addition to the SEC:

"All employees of the Department of Energy, its predecessor agencies, and their contractors and subcontractors who worked in any area at the Lawrence Livermore National Laboratory in Livermore, California, during the period from January 1, 1974, through December 31, 1989, for a number of work days aggregating at least 250 work days, occurring either solely under this employment, or in combination with work days within the parameters established for one or more other classes of employees in the Special Exposure Cohort."

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

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

Sincerely,

[Signature on File]

Sylvia M. Burwell

Enclosure



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

June 3, 2016

The Honorable Harry Reid
Minority Leader
United States Senate
Washington, DC 20510

Dear Senator Reid:

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THE SECRETARY OF HEALTH AND HUMAN SERVICES
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June 3, 2016

The Honorable Mitch McConnell
Majority Leader
United States Senate
Washington, DC 20510

Dear Senator McConnell:

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

June 3, 2016

The Honorable Nancy Pelosi
Minority Leader
U.S. House of Representatives
Washington, DC 20515

Dear Representative Pelosi:

Pursuant to the Energy Employees Occupational Illness Compensation Program Act of 2000 and 42 C.F.R. pt. 83, a petition was filed on behalf of workers who were employed at Lawrence Livermore National Laboratory in Livermore, California, to be added to the Special Exposure Cohort (SEC).

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

June 3, 2016

The Honorable Paul Ryan
Speaker of the U.S. House of Representatives
Washington, DC 20515

Dear Mr. Speaker:

Pursuant to the Energy Employees Occupational Illness Compensation Program Act of 2000 and 42 C.F.R. pt. 83, a petition was filed on behalf of workers who were employed at Lawrence Livermore National Laboratory in Livermore, California, to be added to the Special Exposure Cohort (SEC).

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Sylvia M. Burwell

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

June 3, 2016

The Honorable Dianne Feinstein
United States Senate
Washington, DC 20510

Dear Senator Feinstein:

Pursuant to the Energy Employees Occupational Illness Compensation Program Act of 2000 and 42 C.F.R. pt. 83, a petition was filed on behalf of workers who were employed at Lawrence Livermore National Laboratory in Livermore, California, to be added to the Special Exposure Cohort (SEC).

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

June 3, 2016

The Honorable Barbara Boxer
United States Senate
Washington, DC 20510

Dear Senator Boxer:

Pursuant to the Energy Employees Occupational Illness Compensation Program Act of 2000 and 42 C.F.R. pt. 83, a petition was filed on behalf of workers who were employed at Lawrence Livermore National Laboratory in Livermore, California, to be added to the Special Exposure Cohort (SEC).

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Sylvia M. Burwell

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

June 3, 2016

The Honorable Eric Swalwell
U.S. House of Representatives
Washington, DC 20515

Dear Representative Swalwell:

Pursuant to the Energy Employees Occupational Illness Compensation Program Act of 2000 and 42 C.F.R. pt. 83, a petition was filed on behalf of workers who were employed at Lawrence Livermore National Laboratory in Livermore, California, to be added to the Special Exposure Cohort (SEC).

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Sylvia M. Burwell

Enclosure

U.S. Department of Health and Human Services Designation
of Additional Members of the Special Exposure Cohort
under the
Energy Employees Occupational Illness Compensation Program Act of 2000

Designating a Class of Employees

Lawrence Livermore National Laboratory
Livermore, California



I. Designation

I, Sylvia M. Burwell, Secretary of the U.S. Department of Health and Human Services (HHS), 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.

June 3, 2016
Date

[Signature on File]
Sylvia M. Burwell

II. Employee Class Definition

All employees of the Department of Energy, its predecessor agencies, and their contractors and subcontractors who worked in any area at the Lawrence Livermore National Laboratory in Livermore, California, during the period from January 1, 1974, through December 31, 1989, for a number of work days aggregating at least 250 work days, occurring either solely under this employment, or in combination with work days within the parameters established for one or more other classes of employees in the Special Exposure Cohort.

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 (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.

NIOSH determined that there is insufficient information to estimate the radiation dose of individual members of the class with sufficient accuracy under the two abovementioned

situations. 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 received by the Secretary on May 4, 2016.

IV. Designation Findings

Infeasibility of Estimating Radiation Doses with Sufficient Accuracy

The Secretary designates the class of employees covered by this report based upon the findings summarized below.

- NIOSH has identified that principal sources of internal and external radiation exposures in Building 251, the Heavy Elements Facility, included isotopes of uranium and thorium; highly enriched uranium; plutonium, americium, curium, and neptunium; and other exotic materials. Potential exposures to the members of the proposed class involved operations such as nuclear tracer fabrication, radiochemical analysis of bomb debris, and chemical research into transuranic radionuclides, including work with high-specific-activity sample processing.
- NIOSH has determined that it has insufficient bioassay, air monitoring, and source term information to reconstruct internal radiation exposures for LLNL workers during the period from January 1, 1974, through December 31, 1989.
- NIOSH determined that external dose for photon, beta, and neutron exposures can likely be reconstructed for all members of the evaluated class for the period from January 1, 1974, through December 31, 1989. As part of its continuing evaluation of SEC-00221, NIOSH will provide a definitive judgment on the feasibility of reconstructing external exposures.
- NIOSH finds that it is feasible to reconstruct occupational medical dose for LLNL workers with sufficient accuracy.
- The Board concurred with the NIOSH finding that it could not reconstruct internal radiation exposures for the proposed class of workers for the period from January 1, 1974, through December 31, 1989.
- Pursuant to 42 C.F.R. § 83.13(c)(1), NIOSH determined that there is insufficient information to either: (1) 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 (2) estimate the radiation doses of members of the class more precisely than a maximum dose estimate.
- Although NIOSH found that it is not possible to completely reconstruct internal radiation doses for the period from January 1, 1974, through December 31, 1989, NIOSH intends to use any internal and external monitoring data that may become available for an individual claim (and that can be interpreted using existing NIOSH dose-reconstruction processes or procedures). Dose reconstructions for individuals employed at LLNL during

the period from January 1, 1974, through December 31, 1989, but who do not qualify for inclusion in the SEC, may be performed using these data as appropriate.

- The Board concurred with NIOSH's recommendation to add the proposed class of workers to the SEC.

Health Endangerment

The Secretary established the health endangerment determination for the class of employees covered by this report based 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 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 NIOSH's finding that the health of the class may have been endangered and defined the class according to the 250-workday 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 the designation of one additional class to the SEC for review by Congress, pursuant to 42 U.S.C. §§ 7384l(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. § 7384l(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.