



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

August 23, 2012

The Honorable Joseph R. Biden, Jr.
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 and 42 C.F.R. pt. 83, a petition was filed on behalf of workers who were employed at the Medina Modification Center in San Antonio, Texas, 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 June 21, 2012. The Board considered the petition, and on August 1, 2012, I received the Board's recommendation concerning this petition. 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 at the Medina Modification Center in San Antonio, Texas, from January 1, 1958 through December 31, 1966, 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]

Kathleen Sebelius
Secretary

Enclosure



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

August 23, 2012

The Honorable Harry Reid
Majority Leader
United States Senate
Washington, D.C. 20510

Dear Senator Reid:

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 the Medina Modification Center in San Antonio, Texas, to be added to the Special Exposure Cohort (SEC).

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

August 23, 2012

The Honorable Mitch McConnell
Minority Leader
United States Senate
Washington, D.C. 20510

Dear Senator McConnell:

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

August 23, 2012

The Honorable Nancy Pelosi
Minority Leader
House of Representatives
Washington, D.C. 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 the Medina Modification Center in San Antonio, Texas, to be added to the Special Exposure Cohort (SEC).

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Kathleen Sebelius
Secretary

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

August 23, 2012

The Honorable John A. Boehner
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 and 42 C.F.R. pt. 83, a petition was filed on behalf of workers who were employed at the Medina Modification Center in San Antonio, Texas, to be added to the Special Exposure Cohort (SEC).

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Kathleen Sebelius
Secretary

Enclosure

HHS 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

Medina Modification Center

San Antonio, Texas



I. Designation

I, Kathleen Sebelius, Secretary of Health and Human Services, 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.

August 23, 2012
Date

[Signature on File]
Kathleen Sebelius

II. Employee Class Definition

All employees of the Department of Energy, its predecessor agencies, and their contractors and subcontractors who worked at the Medina Modification Center in San Antonio, Texas, from January 1, 1958, through December 31, 1966, 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.

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 August 1, 2012.

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 based upon the findings summarized below.

- NIOSH determined that the principal sources of internal radiation exposures for members of the Medina Modification Center proposed class included exposures to tritium, enriched uranium, depleted uranium, and plutonium during the assembly, inspection, and disassembly of weapons components, and enhanced radon in structures that were required to safely test nuclear weapons or components.
- NIOSH found that tritium air sampling and urinalyses were performed. However, NIOSH has been unable to locate any recorded results of this monitoring. NIOSH has also identified a lack of information indicating urinalysis or other forms of internal monitoring were conducted to monitor for intakes of uranium or plutonium.
- NIOSH located very little documentation regarding the quantities of radiological materials shipped to the Medina Modification Center for processing and testing. It is clear from reports and worker communications that the site worked with uranium, tritium, and plutonium. However, without additional documentation, NIOSH is unable to ascertain the quantities of the source materials that may have been used or stored on site at any time during the period under evaluation.
- In the absence of adequate internal dose monitoring criteria and adequate personnel monitoring data, NIOSH does not have sufficient general area air sampling, breathing zone air sampling, site survey, or source term information to allow it to bound potential internal exposures, or to demonstrate that workers were adequately monitored for potential exposures. Therefore, NIOSH finds that it is not feasible to estimate with sufficient accuracy the total internal dose for workers at the Medina Modification Center in San Antonio, Texas, during the period from January 1, 1958, through December 31, 1966.
- NIOSH determined that the principal sources of external radiation exposures for members of the Medina Modification Center proposed class included exposures to enriched uranium, depleted uranium, and plutonium during the assembly, inspection, and disassembly of weapons components.
- NIOSH has access to individual external monitoring records for workers at the Medina Modification Center and summary exposure records from the years 1959 through 1966. NIOSH intends to investigate the use of neutron-to-photon ratios based on data from similar operations to support reconstructing external neutron doses for members of the proposed class.
- NIOSH has identified no information describing the medical x-ray examination requirements for the covered period at the site, but NIOSH intends to use its available methodology and its knowledge of the technology of that era to support

reconstructing medical x-ray exposures for members of the proposed class. Based on the available data, and the external and medical x-ray dose reconstruction methods available to NIOSH for the Medina Modification Center, NIOSH believes that it is feasible to reconstruct external photon dose, including occupational medical doses, with sufficient accuracy for all Medina Modification Center employees during the time period from January 1, 1958, through December 31, 1966.

- NIOSH finds that it has access to sufficient personnel and area monitoring data, and sufficient process and radiological source information, to support assessing external photon dose, including occupational medical dose, with sufficient accuracy, and that it may be feasible to reconstruct neutron doses. However, NIOSH lacks access to sufficient information and documentation that would allow it to estimate with sufficient accuracy the potential internal radiological exposures to which the proposed class may have been subjected at the Medina Modification Center employees during the time period from January 1, 1958, through December 31, 1966.
- NIOSH has documented that it cannot complete the dose reconstructions related to this petition with sufficient accuracy for the employees who worked at the Medina Modification Center during the time period from January 1, 1958, through December 31, 1966. The basis of this finding demonstrates that NIOSH does not have access to sufficient information to estimate either the maximum radiation dose incurred by any member of the class or to estimate such radiation doses more precisely than a maximum dose estimate for that period.
- Although NIOSH found that it is not possible to completely reconstruct radiation doses for employees who worked at the Medina Modification Center during the time period from January 1, 1958, through December 31, 1966, NIOSH intends to reconstruct external exposures and use any internal monitoring data that may become available for an individual claim during this period (and that can be interpreted using existing NIOSH dose reconstruction processes or procedures) to support a partial dose reconstruction for individuals employed at the Medina Modification Center, during the time period from January 1, 1958, through December 31, 1966, but who do not qualify for inclusion in the SEC.
- 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.
- The Board concurred with the NIOSH evaluation and recommended the proposed class for addition 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 (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 NIOSH’s finding 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 the designation of one additional class to the SEC for review by Congress, pursuant to 42 U.S.C. §§ 7384/(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/(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.