

U.S. Environmental Protection Agency  
Information Collection Request

**TITLE: NESHAP for Radionuclides (40 CFR part 61, subparts B, K, R and W) (Renewal)**

**OMB CONTROL NUMBER: 2060-0191**

**EPA ICR NUMBER: 1100.18**

**ABSTRACT:**

On December 15, 1989, pursuant to Section 112 of the Clean Air Act, as amended in 1977 (42 USC 1857), the EPA promulgated National Emission Standards for Hazardous Air Pollutants (NESHAPs) to control radionuclide emissions from several source categories. The regulations were published in 54 FR 51653 and are codified at 40 CFR part 61. Of the subparts included in the 1989 rule, as currently amended, four apply to privately-operated facilities. In addition to requiring operational practices that limit emissions, subparts B, K, R, and W impose radionuclide dose and emission limits on source categories as listed in Table 1.

**Table 1: Dose and Emissions Limits by Subpart**

<b>Subpart</b>	<b>Source Category</b>	<b>Dose or Release Limit</b>
B	Underground Uranium Mines	10 mrem/yr due to Radon-222
K	Elemental Phosphorous Plants	2 curies/yr of Polonium-210
R	Phosphogypsum Stacks	20 pCi/m <sup>2</sup> /s of Radon-222
W	Uranium Mill Tailings	20 pCi/m <sup>2</sup> /s of Radon-222

Information collected is used by the EPA to ensure that public health continues to be protected from the hazards of airborne radionuclides through compliance with these standards. Compliance is demonstrated through emissions testing and dose calculation when appropriate. Facilities are required to generate and maintain applicable records for 5 years, and to report results to the EPA.

**Supporting Statement A**

**1. NEED AND AUTHORITY FOR THE COLLECTION:**

The Clean Air Act (42 USC 1857), Section 114 authorizes the Administrator of the EPA to require any person who owns or operates any emission source or who is subject to any requirements of the Act to establish and maintain records; make reports, install, use, and maintain monitoring equipment or methods; sample emissions in accordance with EPA prescribed locations, intervals and methods; and provide information as requested by the EPA Administrator or authorized representative.

## **2. PRACTICAL UTILITY/USERS OF THE DATA:**

The EPA uses the information collected to determine that public health continues to be protected through compliance with the health-based standards set by the radionuclide NESHAPs.

The EPA's compliance monitoring activities vary widely. The EPA could issue a letter requesting information about compliance or could conduct a full-scale investigation if a compliance problem is identified, including onsite inspections. When the EPA first learns of a compliance problem, the EPA attempts to work with the owner/operator to remedy the problem by holding informal discussions. If it is not possible to remedy the problem informally, formal action is taken. The EPA's Clean Air Act Compliance Enforcement Guidance Manual identifies the Agency's informal and formal enforcement operating procedures.

## **3. USE OF TECHNOLOGY:**

The EPA Regional Offices review facility reports to determine compliance with the regulatory standards. The EPA may recalculate reported doses using computer models, conduct site inspections, or witness emission tests, as deemed necessary. The Office of Radiation and Indoor Air and the EPA Regional Offices have planned and allocated resources for the efficient and effective management and use of this information. The EPA may perform periodic on-site inspections to determine if compliance with the regulatory standards is being maintained, including review of records.

## **4. EFFORTS TO IDENTIFY DUPLICATION:**

The specific information collected under this ICR is not currently collected by any other office within the EPA or any other governmental agency.

## **5. MINIMIZING BURDEN ON SMALL ENTITIES:**

Of nine facilities identified in the 2023 ICR that are subject to subpart W, five were owned by small businesses. Of those five facilities, three are non-conventional facilities that have been documenting the liquid level in non-conventional impoundments. Regulated entities create and store records of inspections to determine the liquid retention requirement for non-conventional impoundments during the daily inspections of the tailings and waste retention systems already required by the Nuclear Regulatory Commission (and Agreement States) under 10 CFR 40, Appendix A, Criterion 8A, resulting in a small additional burden.

There is the potential for a large increase in regulated subpart W facilities coming online during the proposed ICR period starting in 2026. However, even if the same proportion of those new facilities are operated by small businesses, the additional burden would still be small. Therefore, no small organizations or small governmental entities have been identified that would be adversely impacted by the information collection requirements under subpart W.

## **6. EFFECTS OF LESS FREQUENT COLLECTION:**

Generally, reporting under the radionuclide NESHAPs addressed in subparts B, K and R is required annually or less frequently than annually. Under subpart W, respondents are required to collect digital photographs of liquid levels in impoundments at least weekly and submit them to the Agency at least monthly. Extended periods of exposed uranium byproduct material could result in excessive emissions of radon to the atmosphere. In each case, the frequency of reporting is sufficient for the Agency to ensure that compliance is maintained, or that corrective actions can be taken in a timely manner.

## **7. GENERAL GUIDELINES:**

With the following exceptions, the proposed collection does not create special circumstances requiring justification under 5 CFR 1320.5(d)(2).

- Some respondents are required to report information to the agency more often than quarterly: Under subpart W, respondents are required to collect digital photographs of liquid levels in impoundments at least weekly and submit them to the Agency at least monthly
- Respondents are required to retain records, other than health, medical, government contract, grant-in-aid, or tax records, for more than three years: The owner or operator of the facility must maintain records documenting the results of all measurements, the calculations and/or analytical methods used to derive values for input parameters, and the procedures used to determine compliance. In the case of uranium recovery facilities, the owner or operator must maintain records that confirm the approved design and operating procedures for conventional impoundments, non-conventional impoundments and heap leach piles, including the results of liner compatibility tests, and written and digital photographic records confirming that liquid has been maintained in non-conventional impoundments such that no solid material is visible above the liquid level. This documentation should be sufficient to allow an independent auditor to verify the accuracy of the determination made concerning the facility's compliance with the standard. Records must be kept at the facility for the lifetime of the facility and, upon request, be made available for inspection by the EPA Administrator, or his/her authorized representative.

## **8. PUBLIC COMMENT AND CONSULTATIONS:**

### **8a. Public Comment**

EPA on November 24, 2025, published an FR Notice 90 FR 52952 stating that the Agency plans to submit an ICR, "NESHAP for Radionuclides (40 CFR part 61, subparts B, K, R, and W) (Renewal)" to the OMB for review and approval.

The EPA requested comments on specific aspects of this ICR with a 60-day comment period published in the Federal Register, comments closed on January 23, 2026. The Agency did not receive any comments within the comment period, and so did not revise the burden estimates based on public comment.

## 8b. Consultations

In the preparation of this ICR renewal, the EPA contacted representatives in each of its Regional Offices to update information on the operating and reporting status of affected facilities and updated the number of affected facilities based on this information. In the case of subpart B and subpart W, the Agency pulled data from several sources, including interagency working groups, company websites, and regional EPA counterparts, to determine how many facilities had the potential to monitor emissions and submit reports between 2026 and 2029. Following the publication of the notice in the Federal Register, the EPA reached out directly to respondents and requested that they submit comments on the proposed ICR. No comments were ultimately submitted by respondents.

## 9. PAYMENTS OR GIFTS TO RESPONDENTS:

The Agency does not intend to provide payments or gifts to respondents as part of this collection.

## 10. PROVISIONS FOR PROTECTION OF INFORMATION:

This section is not applicable because this ICR does not request information of confidential nature.

## 11. JUSTIFICATION FOR SENSITIVE QUESTIONS:

This section is not applicable because this ICR does not request sensitive information.

## 12. RESPONDENT BURDEN HOURS AND LABOR COSTS:

This section provides estimates of the hour burden of the collection of information. The statement below:

- Indicates the number of respondents, frequency of response, annual hour burden, and an explanation of how the burden was estimated.
- Provides estimates of annualized cost to respondents for the hour burdens for collections of information, identifying and using appropriate wage rate categories. The cost of contracting out or paying outside parties for information collection activities is not included here. Instead, this cost is included as O&M costs under non-labor costs covered under question 13.

**Table 2: Summary of Burden and Labor Cost for all Subparts**

Subpart	No of Respondents (Facilities)	Annual Burden Hours	Annual Labor Cost
B	14	3220	\$297,500
K	1	20	\$1,715
R (Open)	13	1,638	\$129,558
W - liquid inspections	21	5913	\$539,066
W - record keeping	24	288	\$15,528
W - radon testing	3	222	\$21,161
<b>TOTALS</b>	<b>52</b>	<b>11,301</b>	<b>\$1,004,527</b>



## 12a. RESPONDENTS/NAICS CODES

The North American Industry Classification System (NAICS) codes associated with the activities of the respondents are included in Table 3.

**Table 3: NAICS Codes of Respondents by Subpart**

Subpart	Source Category	NAICS Code
B	Underground Uranium Mines	212290 (previously 212291) Other Metal Ore Mining
K	Elemental Phosphorous	325180: Other Basic Inorganic Chemical Manufacturing
R	Phosphogypsum Stacks	212390 (previously 212392): Other Nonmetallic Mineral Mining and Quarrying
W	Uranium Mill Tailings	212290 (previously 212291): Other Metal Ore Mining

## 12b. INFORMATION REQUESTED

Descriptions of the reporting requirements are listed separately below for each subpart.

### Subpart B: Underground Uranium Mines

Subpart B requires mines that are being actively ventilated to perform annual radon emissions measurements and public dose calculations using Appendix B, Method 115 of 40 CFR part 61 and the EPA computer program COMPLY-R, and to report the results to the EPA. The specific reporting requirements are found in Section 61.24(a):

“The mine owner or operator shall annually calculate and report the results of the compliance calculations and the input parameters used in making the calculation. This report shall cover the emissions of a calendar year and be sent to EPA by March 31 of the following year. Each report shall also include the following information:

- (1) The name and location of the mine (including latitude and longitude).
- (2) The name of the person responsible for the operation of the facility and the name of the person preparing the report (if different).
- (3) The results of the emissions testing conducted and the dose calculated using the procedures in Section 61.23.
- (4) A list of the stacks or vents or other points where radioactive materials are released to the atmosphere, including their location, diameter, flow rate, effluent temperature and release height.

(5) A description of the effluent controls that are used on each stack, vent, or other release point and the effluent controls used inside the mine, and an estimate of the efficiency of each control method or device.

(6) Distances from the points of release to the nearest residence, school, business or office and the nearest farms producing vegetables, milk and meat.

(7) The values used for all other user-supplied input parameters for the computer model (e.g., meteorological data) and the source of these data.

(8) Each report shall be signed and dated by a corporate officer in charge of the facility and contain the following declaration immediately above the signature line: 'I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. See 18 U.S.C. 1001.'

#### **Subpart K: Elemental Phosphorus Plants**

Subpart K sets an annual emissions limit for polonium-210. Each owner or operator of an elemental phosphorus plant shall test emissions of polonium-210 from the plant annually according to the procedures in Section 61.123 and using the test methods in Section 61.125. The EPA requires that these results be reported annually. Specific compliance reporting requirements are included in Section 61.123(f):

"Each owner or operator of an elemental phosphorus plant shall furnish the EPA Administrator with a written report on the results of the emission test within 60 days of conducting the test. The report must provide the following information:

(1) The name and location of the facility (including latitude and longitude).

(2) The name of the person responsible for the operation of the facility and the name of the person preparing the report (if different).

(3) A description of the effluent controls that are used on each stack, vent or other release point and an estimate of the efficiency of each device.

(4) The results of the testing, including the results of each sampling run completed.

(5) The values used in calculating the emissions and the source of these data.

(6) Each report shall be signed and dated by a corporate officer in charge of the facility and contain the following declaration immediately above the signature line: 'I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware

that there are significant penalties for submitting false information including the possibility of fine and imprisonment. See, 18 U.S.C. 1001.'"

### **Subpart R: Phosphogypsum Stacks**

Subpart R sets a limit for radon emissions from inactive stacks, defined in the rule as any stack which for two years has neither had phosphogypsum added nor has been used for water management. When a stack becomes inactive, testing and reporting is required, which is described in Section 61.203:

"(a) Within sixty days of the date on which a stack becomes an inactive stack...the owners or operators of the inactive phosphogypsum stack shall test the stack for radon-222 flux in accordance with the procedures described in 40 CFR part 61, appendix B, Method 115. EPA shall be notified at least 30 days prior to each such emission test so that EPA may, at its option, observe the test. If meteorological conditions are such that test cannot be properly conducted, then the owner or operator should notify EPA and test as soon as conditions permit.

(b)(1) Within ninety days after the testing is required, the owner or operator shall provide EPA with a report detailing the actions taken and the results of the radon-222 flux testing. Each report shall also include the following information:

- (i) The name and location of the facility;
- (ii) A list of the stacks at the facility including the size and dimensions of the stack;
- (iii) The name of the person responsible for the operation of the facility and the name of the person preparing the report (if different);
- (iv) A description of the control measures taken to decrease the radon flux from the source and any actions taken to insure the long-term effectiveness of the control measures; and
- (v) The results of the testing conducted, including the results of each measurement.

(2) Each report shall be signed and dated by a corporate officer in charge of the facility and contain the following declaration immediately above the signature line: 'I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. See 18 U.S.C. 1001.'"

If a stack remains inactive, testing and reporting is only required once. Should the stack become active again for the purposes of phosphogypsum disposal or water management, the facility owner or operator must notify EPA, and radon flux measurement and reporting must be repeated when the stack again becomes inactive (see Section 61.203(d)).

Subpart R additionally defines certain scenarios in which removal of phosphogypsum from stacks is permitted. Within ninety days of phosphogypsum removal from an inactive stack, and at least once within each calendar year during which removal occurs, radon flux measurements and reporting must be repeated. Radon flux testing is not required for the removal of phosphogypsum from an active stack. Additionally, Section 61.207 sets forth requirements for measuring the radium-226 concentration at the location in the stack from which phosphogypsum is removed. The results of these analyses must be included in certification documents for the removed phosphogypsum required by Section 61.208(a)(1):

“The owner or operator of a stack from which phosphogypsum will be removed and distributed in commerce pursuant to Section 61.204, Section 61.205, or Section 61.206 shall prepare a certification document for each quantity of phosphogypsum distributed in commerce which includes:

- (i) The name and address of the owner or operator;
- (ii) The name and address of the purchaser or recipient of the phosphogypsum;
- (iii) The quantity of phosphogypsum, in kilograms or pounds sold or transferred;
- (iv) The date of sale or transfer;
- (v) A description of the intended use for the phosphogypsum;
- (vi) The average radium-226 concentration, in pCi/g (pCi/lb), of the phosphogypsum, as determined pursuant to §61.207; and
- (vii) The signature of the person who prepared the certification.”

Section 61.208 (b) requires a certification document with the same content to be prepared by “each distributor, retailer, or reseller who purchases or receives phosphogypsum for subsequent resale or transfer.” Submission of certification documents to EPA is not a requirement, but the documents must be retained according to recordkeeping requirements as discussed below.

### **Subpart W: Uranium Mill Tailings**

Subpart W limits radon flux from operating uranium mill tailing impoundments. Conventional impoundments are used to manage the mostly solid wastes from uranium milling, and non-conventional impoundments are used to manage liquid process effluents. Non-conventional impoundments are also known as evaporation or holding ponds.

For conventional impoundments, the EPA requires reports to be submitted annually. The requirements for those reports are included in Section 61.254:

“The owners or operators of operating existing mill impoundments shall perform radon measurements and compliance calculations as required in §61.253. The input parameters and results of the calculation for each calendar year shall be sent to EPA by March 31 of the following year. Each report shall also include the following information:

- (1) The name and location of the mill.
- (2) The name of the person responsible for the operation of the facility and the name of the person preparing the report (if different).
- (3) The results of the testing conducted, including the results of each measurement.
- (4) Each report shall be signed and dated by a corporate officer in charge of the facility and contain the following declaration immediately above the signature line: 'I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. See 18 U.S.C. 1001.'

The owners or operators of operating non-conventional impoundments are required to submit digital photographs collected during compliance inspections to the Subpart W Impoundment Photographic Reporting system (SWIPR) under Section 61.255. Digital photographs documenting the presence of liquids in non-conventional impoundments such that solid materials are not visible above the liquid level are to be collected at least weekly and uploaded to SWIPR at least monthly. Daily inspections of impoundments are required by the Nuclear Regulatory Commission. Written observations and digital photographs documenting liquid levels can be collected in conjunction with these customary and usual business practices.

#### **12c. RESPONDENT ACTIVITIES AND FREQUENCY**

The record keeping requirements of all the subparts are similar. The owner or operator of the facility must maintain records documenting the results of all measurements, the calculations and/or analytical methods used to derive values for input parameters, and the procedures used to determine compliance. In the case of uranium recovery facilities, the owner or operator must maintain records that confirm the approved design and operating procedures for conventional impoundments, non-conventional impoundments and heap leach piles, including the results of liner compatibility tests, and written and digital photographic records confirming that liquid has been maintained in non-conventional impoundments such that no solid material is visible above the liquid level. This documentation should be sufficient to allow an independent auditor to verify the accuracy of the determination made concerning the facility's compliance with the standard. Records must be kept at the facility for the lifetime of the facility and, upon request, be made available for inspection by the EPA Administrator, or his/her authorized representative.

The reporting schedule is set by the regulation. Collection of the information required will begin when the facility enters operational status, with the documentation of design and construction of impoundments. Under subparts B, K and conventional impoundments under subpart W, annual reports are required to provide yearly certification of compliance with a health-based emissions standard, unless the EPA has granted a waiver. For subpart R, it was determined during rulemaking that less frequent reports are adequate to protect public health. For non-conventional impoundments under

subpart W, inspections and recordkeeping of impoundment liquid levels shall begin when non-conventional impoundments are first used to manage uranium byproduct material or tailings and shall be performed daily during the inspections required by 10 CFR Part 40, Appendix A, Criterion 8A. Digital photographs to document the liquid level in non-conventional impoundments are to be taken at least weekly. Monthly submission of digital photographs to the SWIPR system is required; if the SWIPR system is not available, photographs must be maintained at the facility and made available upon request.

#### **12d. RESPONDENT BURDEN HOURS AND LABOR COSTS**

First, the EPA updated the number of facilities that are currently active, and therefore subject to monitoring and reporting requirements under 40 CFR part 61. In July 2023, when this ICR was last reviewed, there were two active subpart B facilities, one active subpart K facility, and thirteen active subpart R facilities. The EPA identified nine total facilities which were affected by the general record keeping requirements for subpart W, and six facilities with non-conventional impoundments which were required to inspect and report on water levels in the impoundments. The subpart K facility had been granted a permanent waiver from radionuclide testing and reporting from EPA Region 10 in 2017. Based on the prior ICR and outreach efforts to regional EPA staff, the EPA has learned that two subpart B uranium mines are currently producing ore and are likely to vent for maintenance operations in 2025, which would require them to monitor emissions and submit a report. For subpart W, based on information gathered from intergovernmental working groups, company websites, and discussions with regional EPA staff, there may be an additional 15 non-conventional facilities coming online by 2029. The EPA also confirmed that there were no changes in the number of facilities or operating status for subparts K and R since the last renewals.

Total estimated respondent hours increased from 4,146 hours of the previous approved version of this ICR to 11,301 hours. This is primarily a result of the additional subpart B and W facilities being activated and potentially coming online by 2029. Finally, burden and costs estimates were recalculated for each subpart using updated labor rates obtained from the U.S. Department of Labor, Bureau of Labor Statistics (BLS), following the same process as in past renewals. The mean hourly rates for three labor categories -- management, technical, and clerical -- were obtained from the published 2024 Occupational Employment Statistics for NAICS codes 212200 (Mining [except Oil and Gas]) and 325100 (Basic Chemical Manufacturing). Management rates were given. Technical rates were based on the mean salary for "all production operations" in the mining sector which includes mining engineers, environmental engineers and geologists. Clerical rates were based on the hourly labor rates for secretary and information clerk in the mining sector in the 2024 BLS data. Loaded hourly labor rates were calculated by multiplying the base salary rates by a factor of 1.5 to account for overhead expenses. Finally, the loaded hourly labor rate for 2025 then was increased by a factor of 1.035 to account for inflation between June 2024 and June 2025. In previous renewals, this information was obtained from the Consumer Price Index Inflation Calculator. In this renewal, the BLS Employment Cost Index Summary was consulted, which showed private industry wages to have risen by 3.5% during the period from June 2024 to June 2025 (<https://www.bls.gov/news.release/eci.nr0.htm>). The resulting loaded labor rates were \$133.50 per hour for management, \$91.00 per hour for technical, and \$38.00 per hour for clerical labor. The compliance and reporting activities anticipated are listed below for each subpart.

**Subpart B: Underground Uranium Mines**

To meet reporting requirements for subpart B, respondents are expected to:

- 1) read and understand the regulatory provision,
- 2) perform radon-222 emission measurements as required in 40 CFR part 61, Appendix B, Method 115,
- 3) perform data analysis, including Method 115 source term calculations and dose calculation using an approved model for concentration calculations,
- 4) prepare and submit the report.

Table 4 includes the estimated annual burden to understand regulatory provisions, perform Method 115 radon testing, perform data analysis, prepare a report, and manage records. Two mines submitted an annual report in 2025 for calendar year 2024. Based on conversations with interagency mining groups and regional EPA staff, up to 14 mines are likely to vent in 2026 through 2029 and submit a report the following year.

**Table 4: Burden and Cost for Subpart B Uranium Mines**

Reporting Burden	(hours)					(costs)	
	Reporting Burden Task	Burden Manager Level (hr/year)	Burden Technical Level (hr/year)	Burden Clerical Level (hr/year)	Task Burden per Facility (hr/year)	Task Burden for all Facilities (hr/year)	Facility Labor (\$/yr)
Read and understand the regulatory provision	10	0	0	10	140	\$1,335	\$18,690
Perform emission monitoring	0	160	0	160	2240	\$14,560	\$203,840
Perform data analysis	0	40	0	40	560	\$3,640	\$50,960
Prepare report	10	0	0	10	140	\$1,335	\$18,690
Record Keeping Burden	(hours)					(costs)	
File and maintain data	0	0	10	10	140	\$380	\$5,320
<b>TOTAL</b>	<b>20</b>	<b>200</b>	<b>10</b>	<b>230</b>	<b>3220</b>	<b>\$21,250</b>	<b>\$297,500</b>

**Subpart K: Elemental Phosphorus Plants**

To meet reporting requirements for subpart K, respondents are expected to:

- 1) read and understand the regulatory provision,
- 2) perform the emission monitoring and test procedures in Section 61.125,
- 3) perform data analysis, including calculation of annual emission rate,
- 4) prepare and submit the report to EPA.

The only operating subpart K facility sought and obtained a waiver from EPA for testing and reporting and is therefore exempt from reporting requirements. Twenty hours of burden per year are assumed for the facility to remain cognizant of the regulatory requirements and conditions of the waiver. This burden and the associated costs are reflected in Table 5.

**Table 5: Burden and Cost for Subpart K Elemental Phosphorus Plants**

Reporting Burden (hours)						Reporting Burden (costs)	
Reporting Burden Task	Burden Manager Level (hr/year)	Burden Technical Level (hr/year)	Burden Clerical Level (hr/year)	Task Burden per Facility (hr/year)	Task Burden for all Facilities (hr/year)	Facility Labor (\$/yr)	All Facilities Total Labor (\$/yr)
Read and understand the regulatory provision	10	0	0	10	10	\$1,335	\$1,335
Perform emission monitoring	0	0	0	0	0	\$0	\$0
Perform data analysis	0	0	0	0	0	\$0	\$0
Prepare report	0	0	0	0	0	\$0	\$0
Record Keeping Burden (hours)						Record Keeping Burden (costs)	
File and maintain data	0	0	10	10	10	\$380	\$380
<b>TOTAL</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>20</b>	<b>20</b>	<b>\$1,715</b>	<b>\$1,715</b>

## Subpart R: Phosphogypsum Stacks

To meet reporting requirements for subpart R, respondents are expected to:

- 1) read and understand the regulatory provision,
- 2) perform radon flux testing as directed in Section 61.203,
- 3) perform radium-226 sampling and measurement procedures in Section 61.207 (if required),
- 4) perform data analysis including Method 115 radon flux or radium-226,
- 5) prepare and submit the report and/or certification documents.

Testing and reporting under subpart R is required only when facilities close active stacks or remove phosphogypsum from inactive stacks. Rather than predict the exact number of facilities per year that will undertake these activities, the EPA has chosen estimates which represent an upper bound of the potential burden due to testing and reporting. It is unlikely that in a given year all active stacks will take actions requiring testing and reporting, as is assumed, and it is possible that no stacks will take such actions. The Agency will continue to observe the actual activities of facilities to refine these estimates for future ICRs.

**Table 6: Burden and Cost for Subpart R Phosphogypsum Stacks**

Reporting Burden (hours)						(costs)	
Reporting Burden Task	Burden Manager Level (hr/year)	Burden Technical Level (hr/year)	Burden Clerical Level (hr/year)	Task Burden per Facility (hr/year)	Task Burden for all Facilities (hr/year)	Facility Labor (\$/yr)	All Facilities Total Labor (\$/yr)
Read and understand the regulatory provision	10	0	0	10	130	\$1,335	\$17,355
Perform radon flux testing	0	64	0	64	832	\$5,824	\$75,712
Perform radium-226 sampling and measurement	0	20	0	20	260		
Perform data analysis	0	12	0	12	156	\$1,092	\$14,196
Prepare report and certification papers	10	0	0	10	130	\$1,335	\$17,355
Record Keeping Burden (hours)						(costs)	
File and maintain data	0	0	10	10	130	\$380	\$4,940
<b>TOTAL</b>	<b>20</b>	<b>96</b>	<b>10</b>	<b>126</b>	<b>1638</b>	<b>\$9,966</b>	<b>\$129,558</b>

**Subpart W: Uranium Mill Tailings**

Maintaining design/construction records

To meet the requirements of subpart W, all facilities subject to subpart W must maintain design and construction documentation for all impoundments. Design and construction records are required as part of the application for construction/modification required under subpart A of 40 CFR part 61. It is estimated that two hours of management time per facility will be required annually to retain familiarity with the regulatory provision, and that ten hours of clerical time per facility per year will be sufficient to store and maintain the records at the facility so that they are accessible. All 24 facilities that are subject to subpart W will maintain these records. Burden and cost are shown in Table 7.

**Table 7: Burden and Cost to Meet Design and Construction Record Requirements for All Subpart W Impoundments**

Reporting Burden (hours)						Reporting Burden (cost)		
Reporting Burden Task	Manager (\$/hr)	Technical (\$/hr)	Clerical (\$/hr)	Respond (hrs/yr)	Labor cost (year/respond)	Number of Respond	Total hours/yr	Total Labor cost/yr
Read and understand the regulatory provision (Mgmt)	2			2	\$267	24	48	\$6,408
Record Keeping Burden (hours)						Record Keeping Burden (cost)		
File and maintain data (Clerical)			10	10	\$380	24	240	\$9,120
<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>10</b>	<b>12</b>	<b>\$647</b>	<b>24</b>	<b>288</b>	<b>\$15,528</b>

Measurements for conventional impoundments

To meet reporting requirements for conventional impoundments under subpart W, respondents are expected to:

- 1) read and understand the regulatory provision,
- 2) perform radon flux testing required in 40 CFR part 61, Appendix B, Method 115,
- 3) perform data analysis including Method 115 radon flux calculations,
- 4) prepare and submit the report to EPA.

Table 8 includes the following expenses for respondents:

- It is estimated that the testing materials for 200 measurements and the analysis is obtained from a contract source at a cost of \$44/measurement.
- It is estimated that 3 facilities will file a report annually.

**Table 8: Burden and Cost for Subpart W Uranium Mill Tailings**

Reporting Burden (hours)						Reporting Burden (costs)	
Reporting Burden Task	Burden Manager Level (hr/year)	Burden Technical Level (hr/year)	Burden Clerical Level (hr/year)	Task Burden per Facility (hr/year)	Task Burden for all Facilities (hr/year)	Facility Labor (\$/yr)	All Facilities Total Labor (\$/yr)
Read and understand the regulatory provision	10	0	0	10	30	\$1,338	\$4,015
Perform radon flux testing	0	32	0	32	96	\$2,907	\$8,721
Perform data analysis	0	12	0	12	36	\$1,090	\$3,270
Prepare report	10	0	0	10	30	\$1,338	\$4,015
Record Keeping Burden (hours)						(costs)	
File and maintain data	0	0	10	10	30	\$380	\$1,140
<b>TOTAL</b>	<b>20</b>	<b>44</b>	<b>10</b>	<b>74</b>	<b>222</b>	<b>\$7,054</b>	<b>\$21,161</b>

Maintaining liquid in non-conventional impoundments

To meet the reporting requirements for non-conventional impoundments in subpart W, facilities must perform daily inspections of liquid levels in those impoundments and submit photographs to the Agency. It is estimated that management will spend two hours annually to retain familiarity with the regulatory provision, and five hours per year to acquire any necessary equipment. It is estimated that it will take one technical staff person one day to be trained to record the required information, and one person to provide training. The Agency estimates that it will take one hour to perform the inspection and record the required information, and inspections will be conducted on 240 workdays per year. It is estimated that it will take clerical staff 20 hours per year to submit digital photographs and maintain written and digital photographic records. Six facilities currently generate and submit these records through SWIPR, and an additional 15 facilities may come online over the next three years. The estimated burden is included in Table 9, Burden and Cost to Meet Liquid Retention Requirement for subpart W Non-conventional Impoundments.

**Table 9: Burden and Cost to Meet Liquid Retention Requirement for Subpart W Non-conventional Impoundments**

Reporting Burden (hours)					Reporting Burden (cost)			
Reporting Burden Task	Manager (hr/yr)	Technical (hr/yr)	Clerical (hr/yr)	Respondent (hr/yr)	Labor cost (\$/respond)	Number of Respondents	Total hours/yr	Total Labor cost/yr
Read and understand the regulatory	2			2	\$267	21	42	\$5,607

### 13. RESPONDENT CAPITAL AND O&M COSTS:

**Table 10: Summary of O&M and Startup Costs for all Subparts**

Subpart	No of Respondents (Facilities)	Capital/Start-up Cost	(O & M) Cost
B	14	\$0	\$74,200
K	1	\$0	\$0
R (Open) *	13	\$0	\$301,600
W - liquid inspections	21	\$4,500	\$0
W - record keeping	24	\$1,600	\$0
W - radon testing	3	\$0	\$26,400
<b>TOTALS</b>	<b>52</b>	<b>\$6,100</b>	<b>\$402,200</b>

\* Assumes that all currently active stacks will become inactive and both remove phosphogypsum, requiring analyses for radium-226, and require radon flux measurements upon closure. This is a conservative assumption – see Section 12(d).

#### Subpart B: Underground Uranium Mines

To meet reporting requirements for subpart B an estimated O&M cost of \$5,300 per facility is estimated for up to 14 mines.

**Table 11: O&M and Startup Cost for Subpart B Uranium Mines**

Reporting Burden	Reporting Burden (costs)	
Reporting Burden Task	Capital Startup Cost (\$/yr)	O & M Cost (\$/yr)
Read and understand the regulatory provision	\$0	\$0
Perform emission monitoring	\$0	\$74,200
Perform data analysis	\$0	\$0
Prepare report	\$0	\$0
Record Keeping Burden	Record Keeping Burden (costs)	
File and maintain data	\$0	\$0
<b>TOTAL</b>	<b>\$0</b>	<b>\$74,000</b>

#### Subpart K: Elemental Phosphorus Plants

No O&M and Startup Cost are expected for subpart K Elemental Phosphorus Plants.

#### Subpart R: Phosphogypsum Stacks

Table 12 includes the following expenses for respondents subject to subpart R:

- It is estimated that the testing materials for 300 flux measurements and the analysis are obtained from a contract source at a cost of \$44/measurement.
- It is estimated that it will take four days for two people to place, collect and ship 300 samples to a testing lab.

- It is estimated that that the thirteen stacks that have not closed yet must complete this one-time report.
- It is likewise estimated that all thirteen currently active phosphogypsum stacks will remove material and therefore be required to measure the radium-226 concentration of the removed material to be included in certification papers.

Section 61.207 requires a minimum of 30 samples from each area where phosphogypsum is being removed from the stack, with additional sampling required where the concentrations approach 10 pCi/g of radium-226. It is estimated that 100 samples per stack will be necessary to document radium concentrations and that radium analysis will be performed for \$100 per sample by a contract laboratory. It is estimated that sample collection and preparation occur at a rate of five samples per hour. The total burden estimated for subpart R facilities is shown in Table 12.

**Table 12: Burden and Cost for Subpart R Phosphogypsum Stacks**

<b>Reporting Burden</b>	<b>Reporting Burden (costs)</b>	
<b>Reporting Burden Task</b>	<b>Capital Startup Cost (\$/yr)</b>	<b>O &amp; M Cost (\$/yr)</b>
Read and understand the regulatory provision	\$0	\$0
Perform radon flux testing	\$0	\$171,600
Perform radium-226 sampling and measurement procedures	\$0	\$130,000
Perform data analysis	\$0	\$0
Prepare report and certification papers	\$0	\$0
<b>Record Keeping Burden Task</b>	<b>Record Keeping Burden (costs)</b>	
File and maintain data	\$0	\$0
<b>TOTAL</b>	<b>\$0</b>	<b>\$301,600</b>

## Subpart W: Uranium Mill Tailings

### Maintaining design/construction records

A startup cost of \$100 per facility is assumed for establishing appropriate storage for existing impoundment design and construction records. Afterwards, there are no O&M costs associated with maintaining these records, only annual labor costs to do so.

**Table 13: Burden and Cost to Meet Design and Construction Record Requirements for All Impoundments**

Reporting Burden (cost)		
Subpart W-- Uranium Mill Tailings	Capital/Startup cost	O & M Cost
Read and understand the regulatory provision (Mgmt)	\$1500	\$0
Record Keeping Burden (cost)		
File and maintain data (Clerical)	\$100	\$0
<b>TOTAL</b>	<b>\$1,600</b>	<b>\$0</b>

### Measurements for conventional impoundments

Table 14 includes the following expenses for respondents:

- It is estimated that the testing materials for 200 measurements and the analysis is obtained from a contract source at a cost of \$44/measurement.
- It is estimated that it will take one day for two people to place the test canisters and one day for two people to collect the canisters and ship them to a testing lab.
- It is estimated that 3 facilities will file a report annually.

**Table 14: Burden and Cost for Subpart W Uranium Mill Tailings**

<b>Reporting Burden (costs)</b>		
<b>Reporting Burden Task</b>	<b>Capital Startup Cost (\$/yr)</b>	<b>O &amp; M Cost (\$/yr)</b>
Read and understand the regulatory provision	\$0	\$0
Perform radon flux testing	\$0	\$26,400
Perform data analysis	\$0	\$0
Prepare report	\$0	\$0
<b>Record Keeping Burden (costs)</b>		
File and maintain data	\$0	\$0
<b>TOTAL</b>	<b>\$0</b>	<b>\$26,400</b>

Maintaining liquid in non-conventional impoundments

It is estimated that the equipment required for documenting the liquid level through digital photographic records will cost \$300 for each facility. Afterwards, there are no O&M costs associated with conducting these inspections and submitting reports.

**Table 15: Burden and Cost to Meet Liquid Retention Requirement for Non-conventional Impoundments**

<b>Reporting Burden (cost)</b>		
<b>Reporting Burden Task</b>	<b>Capital/ Startup cost</b>	<b>O &amp; M Cost</b>
Read and understand the regulatory provision (Mgmt)	\$0	\$0
Acquire Instrumentation (Mgmt)	\$4,500	\$0
Train technician to perform inspection (Mgmt./Tech)	\$0	\$0
Perform inspection to determine presence of liquid (Tech.)	\$0	\$0
<b>Record Keeping Burden (cost)</b>		
File and maintain data (Clerical/Tech)	\$0	\$0
<b>TOTAL</b>	<b>\$4,500</b>	<b>\$0</b>

Two subpart B facilities were active during the last ICR update in 2023. The Agency has identified 12 respondents that are likely to submit annual reports by 2029, and with 12 responses added to the ICR, an additional 2,760 hours of labor and \$63,000 of non-labor cost would be added to the burden that was approved in 2023. For subpart W (non-conventional, the Agency identified an additional 4,215 hours of labor and \$4,500 of non-labor costs. For subparts K and R, there were no changes in the number of respondents, the annual time burden, or the annual non-labor cost compared to the most recent renewals of this ICR. The total estimated annual burden for respondents affected by all four subparts is estimated below in Table 16.

**Table 16: Total Estimated Annual Burden for Respondents by Subpart**

<b>Subpart</b>	<b>No of Respondents (Facilities)</b>	<b>Annual Burden Hours</b>	<b>Annual Labor Cost</b>
B	14	3220	\$297,500
K	1	20	\$1,715
R (Open)	13	1,638	\$129,558
W - liquid inspections	21	5913	\$539,066
W - record keeping	24	288	\$15,528
W - radon testing	3	222	\$21,161
<b>TOTALS</b>	<b>52</b>	<b>11,301</b>	<b>\$1,004,527</b>

#### **14. AGENCY COSTS**

##### **14a. AGENCY ACTIVITIES AND FREQUENCY**

The information collected under this ICR is used to demonstrate compliance with Federal regulations. The EPA's activities consist of reviewing reports and photographic submissions, taking further actions if needed to verify compliance, and maintaining files.

##### **14b. AGENCY BURDEN AND LABOR COST**

The burden to the EPA is from reviewing of the information submitted by the regulated community to ensure that emissions and dose are within the limits set by the regulations, and record keeping. The Agency burden and costs are estimated below in Tables 17 and 18. Two separate calculations are included; one for the review of reports submitted under subparts B, K, R, and subpart W conventional impoundments, and the other for receiving and reviewing electronic reports for subpart W non-conventional impoundments. The breakdown of General Schedule levels and steps were different for the two activities in past ICRs, and those different levels have been maintained in this ICR. All Agency salaries were found in 2025 General Schedule salary tables.

For reviewing reports submitted by subpart B, K, R, and conventional subpart W facilities, Agency burden is based on the salary for a GS-13, step 5 technical employee, with a multiplier of 1.6 to include overhead; this resulted in a loaded rate of \$104.57 per hour. This rate was calculated from an average of the 2025 OPM salary tables for DC headquarters (\$65.48) and the Rest of the United States (\$57.23). For the Clerical category, the salary scale for a GS-11, step 10 was used with a multiplier of 1.6 to account for overhead; this resulted in \$79.00 per hour. This average was calculated from the OPM tables for the same locations as GS-13 Step 5 (DC: \$52.70, Rest of US: \$46.05). The multiplier of 1.6 was obtained from

the Agency’s ICR Handbook. 27 report reviews are used for this calculation, because one of the 28 respondents has obtained a permanent waiver from annual reporting.

For non-conventional subpart W facilities, burden to the EPA is due to both reviewing submissions by the regulated community to ensure that they meet the requirements of the regulations, as well as continuing maintenance of the SWIPR system for electronic submittal of digital photographs documenting the liquid level in non-conventional impoundments. Since the Agency reviews the design and construction records of impoundments at the time of the initial application, the Agency does not revisit those records routinely and there is no annual burden to the Agency associated with those records being maintained at the facility.

Uranium recovery facilities in the respondent universe are in EPA Regions 6, 7, 8, and 9, so the average locality pay for those locations was used (Dallas, TX, Lenexa, KS, and Denver, CO, and San Francisco, CA). This was changed from the previous ICR in 2023 and the 1<sup>st</sup> version published for public comment based on the potential for new subpart W facilities to come online in EPA Regions 6 (New Mexico) and 9 (Arizona). The data for review of reports for compliance was based on the 2025 salary scale for GS-13, step 5, with a multiplier of 1.6 to include overhead; this resulted in \$103.02/hr. For the Clerical category, the salary scale for a 2025 GS-9, step 5 in each of the four aforementioned cities were combined, then averaged, then a multiplier of 1.6 was used to account for overhead; this resulted in \$94.91/hr. In addition, development and maintenance of the system for electronic submittal of digital photographs is estimated to involve a 2025 GS-14, step 1, using locality pay for Washington, D.C. Using the 1.6 multiplier, this resulted in \$109.23/hr.

**Table 17: Subparts B, R and W (conventional)**

<b>Agency Activity</b>	<b>Capital/Start-up Burden Hours</b>	<b>Capital/Start-up Cost</b>	<b>Annual Burden Hrs per Report</b>	<b>Annual Costs per Report</b>
Review report for compliance verification (Technical)	0	0	6 @ \$98	\$588
File reports (Clerical)	0	0	4 @ \$57	\$228
<b>SUB-TOTAL</b>	0	0	10	\$816
<b>TOTAL for 28 report reviews</b>			<b>280</b>	<b>\$22,848</b>

**Table 18: Subparts W (non-conventional)**

<b>Agency Burden</b>	<b>O&amp;M Burden Hours</b>	<b>O&amp;M Cost</b>	<b>Annual Burden Hrs per Respondent</b>	<b>Annual Costs per Respondent</b>
Develop and maintain electronic system for submission of digital photographs (\$110/hr agency staff; \$117/hr contractor)	25 (Agency) 23 (Contract)	\$5,441	0.5	\$55
Review reports for compliance verification (Tech @\$98/hr)			6	\$618
File reports (Cler @\$57/hr)			4	\$236
<b>SUB-TOTAL</b>		\$5,441	10.5	\$909
<b>TOTAL for 21 respondents</b>	<b>48</b>	<b>\$5,441</b>	<b>220.5</b>	<b>\$19,089</b>

**14c. AGENCY NON-LABOR COSTS**

There is an O&M burden of 25 hours of Agency staff time and 23 hours of contractor time to maintain the electronic reporting system used by facilities to submit digital photographs from their daily inspections. This is roughly half the amount of hours estimated from the previous ICR in 2023, as operational experience has shown there has not been as much maintenance work needed as originally estimated. Maintenance of this system is independent of the number of respondents. It is estimated that 6 hours of Agency technical staff time and 4 hours of Agency clerical staff time are required per reporting facility annually to review submitted reports. This information is submitted a minimum of once per month by the six facilities with non-conventional impoundments, though some facilities have chosen to submit reports weekly. The Agency estimates that over the next three years an additional 15 facilities may begin reporting.

**14d. AGENCY TOTAL COSTS**

The total agency cost is the sum of the totals of subpart W (non-conventional) and subparts B, R, and W (conventional). This amount is \$41,937.

**15. CHANGE IN BURDEN:**

There is increase of 7,155 hours in the total estimated respondent burden compared with the ICR currently approved by OMB. This increase is due to additional subpart B and subpart W facilities potentially coming online by 2029. In the case of subpart B, based on information gathered for this ICR renewal, the Agency identified up to 14 respondents that are likely to submit annual reports by 2029, which would be an increase of 12 facilities from the previous ICR. The additional responses for subpart B will lead to increases of 2,760 burden hours and \$63,600 in non-labor cost. In the case of subpart W, there is the potential for an additional 15 non-conventional impoundments to be constructed and

operated. This is estimated to produce an additional 4,395 burden hours and \$5,700 in non-labor costs. For subparts K and R, there were no changes to the number of respondents, the annual time burden, or the annual non-labor cost compared to the most recent renewals of this ICR.

#### **16. PUBLICATION OF DATA:**

This section is not applicable to the document at this stage and will be populated at a later date once reviews have been conducted.

#### **17. DISPLAY OF OMB CONTROL NUMBER AND EXPIRATION DATE ON INSTRUMENTS:**

The reporting system that will be used by respondents to upload compliance documents and/or materials for subpart W will be SWIPR. Uploads will be reviewed by EPA personnel to ensure compliance is followed with reporting requirements.

#### **18. CERTIFICATION STATEMENT:**

This information collection complies with all provisions of the Certification for Paperwork Reduction Act Submissions.

#### **BURDEN STATEMENT**

The annual public reporting and record keeping burden for this collection of information is estimated to average 40 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB control numbers for EPA's regulations are listed in 40 CFR part 9 and 48 CFR chapter 15.