SOUTHWESTERN LOW-LEVEL RADIOACTIVE WASTE COMMISSION ANNUAL REPORT FOR FISCAL YEAR 2022-2023 (July 1, 2022 to June 30, 2023)



"The Commission shall submit communications to the governors and to the presiding officers of the legislatures of the party states regarding the activities of the commission, including an annual report submitted on or before January 15 of each year" (P.L. No. 100-712, 102 Stat. 4773.)

<u>INDEX</u>

<u>PAGE</u>	<u>- TOPIC</u>
3.	Summary of Fiscal Year Activities
6.	Highlights of Fiscal Year 2022-23 (July 1, 2022-June 30, 2023) Activities
6.	I. Status of the Regional Disposal Facility
6.	A. Fiscal Year 2022-2023 Host State Report
6.	B. Fiscal Year 2022-2023 License Designee Report
6.	II. Compact Commission
6.	A. Commission Meetings
12.	B. Commission Membership Status
12.	C. Projections of the Regional Disposal Facility's Future Capacity
13.	D. Donations, Grants, Other Resources Accepted
13.	E. Recommendations: Alternative Technologies.
14.	Attachments
	I. Low-Level Radioactive Waste Exporters FY 2022-23
	II. Audit Report: FY 2022-2023 (Under separate cover)
	III. Budget: FY 2022-23 (July 1, 2022-June 30, 2023)

IV. Commission Membership

ANNUAL REPORT FOR FISCAL YEAR 2022-2023

(July 1, 2022-June 30, 2023)

Honorable Governors and legislative leaders of the Southwestern Compact Party States:

As required in Article III., Section (g)(9) of the SOUTHWESTERN LOW-LEVEL RADIOACTIVE WASTE DISPOSAL COMPACT CONSENT ACT, PUBLIC LAW 100-712 [H.R. 5232]; November 23, 1988, we are pleased to submit the 2022-2023 Annual Report of the Southwestern Low-Level Radioactive Waste Commission.

The Southwestern Low-Level Radioactive Waste Commission (the Commission), established under Public Law 100-712, is the governing body for the Southwestern Low-Level Radioactive Waste Disposal Compact among Arizona, California, North Dakota, and South Dakota. California, as host state, is required to develop a regional disposal facility. A regional disposal facility has not yet been developed, so the Commission's key duties include controlling the exportation of low-level radioactive waste out of the region, and tracking the generation and ultimate disposal of low-level radioactive wastes. As a separate legal entity, the Commission can make recommendations and comments appropriate to its charge under law to do whatever is reasonably necessary to ensure that low-level radioactive waste is safely disposed of and managed within the region.

SUMMARY OF FISCAL YEAR ACTIVITIES

In this fiscal year there were 2,193 organizations licensed by the Southwestern Compact States and the U.S. Nuclear Regulatory Commission to use radioactive materials (1,681 in California, 356 in Arizona, 123 in North Dakota, and 33 in South Dakota) within the Southwestern Compact Region. Radioactive materials licensees include nuclear power plants, hospitals and other medical facilities, universities and commercial research facilities, construction, manufacturing, mining, energy development and government agencies.

Not all radioactive materials licensees generate low-level radioactive wastes, however, those that do can only safely store so much for so long. Tens of thousands of cubic feet of low-level radioactive wastes are in storage at any one time in hundreds of locations in our Southwestern Compact region. Eventually, these wastes must be sent to safe, secure and licensed disposal facilities.

Export Petitions

Since, there is no disposal facility available within the Southwestern Compact, the Commission works closely with other states and regional compacts across

the country to authorize export to disposal facilities that are willing to accept lowlevel radioactive wastes from our Compact region.

In Fiscal year 2022-23, the Commission authorized 177 export petitions allowing approximately 400,000 cubic feet of low-level radioactive wastes to be exported for disposal at licensed facilities in Utah and Texas. Working with these host state regulators, their regional compact commissions, the U.S. Department of Energy (DOE) and the disposal site operators, the Commission has tracked the wastes shipped under these authorizations to verify disposal at the intended facilities. In the last ten years, according to U.S. DOE records, low-level radioactive wastes were shipped from over 700 different generators in our Compact Region for disposal outside the region.

National Collaboration

The Southwestern LLRW Commission continues to work closely with the other nine regional compacts, through the Low-Level Radioactive Waste Forum (partially funded by the U.S. DOE) to maintain access to these disposal facilities for the Southwestern Compact low-level radioactive waste generators. This is important for the continuation of the technological benefits that citizens of our region enjoy in our economy, healthcare and infrastructure. Access to these facilities is also essential for the continued support of the ongoing and planned decommissioning activities for California's remaining nuclear power generating facilities.

National Security and Public Safety

Additionally, the Commission has continued to work with the other regional compacts, the U.S. Department of Energy (DOE) National Nuclear Security Administration/Global Threat Reduction Initiative (NNSA/GTRI) and the U.S. Nuclear Regulatory Commission to address the issue of "Disused Sealed Sources". Sealed radioactive materials (sources) are commonly used in medicine, industry, research and education. There are approximately 2 million sealed sources and tens of thousands of **disused** sealed sources being held in storage in the U.S. According to the U.S. Governmental Accountability Office, an average of 250 sealed sources are lost or stolen every year. Some of these disused sealed sources represent potential threats to public safety and/or national security if they are not recycled or properly disposed of in a timely manner. The Commission, working in concert with the Disused Sealed Sources Working Group, is promoting the proper management and ultimate secure disposal of these radioactive materials.

STATUS OF THE COMMISSION

At the close of the fiscal year, there were five vacancies on the Commission: three commissioners for California, one commissioner for South Dakota, and one

alternate for Arizona. In accordance with Public Law 100-712, the Governors of these respective states are to make appointments to fill these vacancies.

HIGHLIGHTS OF FISCAL YEAR 2022-2023 (July 1, 2022-June 30, 2023) ACTIVITIES

I. STATUS OF THE REGIONAL DISPOSAL FACILITY

A. FISCAL YEAR 2022-2023 HOST STATE REPORT

The State of California provided the following report:

The Radiologic Health Branch has 1681 active radioactive materials licenses as of November 15, 2022.

There have been no inquiries regarding, or interest expressed in, development of a low-level radioactive waste disposal facility in California at this time.

B. FISCAL YEAR 2022-2023 LICENSE DESIGNEE REPORT

US Ecology, Inc. provided the following report:

"US Ecology is not presently undertaking efforts to develop a regional disposal facility for the Southwestern Compact region."

II. COMPACT COMMISSION

A. COMMISSION MEETINGS

a. The Southwestern Low-Level Radioactive Waste Commission held the 90th meeting on Tuesday, November 15, 2022 at the Westin San Francisco Airport Hotel, 1 Old Bayshore Highway, Millbrae, CA.

All Commissioners were in attendance from California, Arizona, North Dakota and South Dakota. A quorum was present.

Chair Activities

Chair Earley reported that during the last year, the Commissioners had been seeking a replacement for the Executive Director, as Ms. Davis had expressed her desire to retire. After soliciting applicants and conducting a selection process, including interviews, the Commissioners selected and entered into a contract with Ronald Gaynor. Since April 1, Mr. Gaynor has been working closely with Ms. Davis on transitioning into the position.

Executive Director Activities

Executive Director Ron Gaynor reported on his activities since starting his position on April 1. These included the following:

Conferences Attended

- LLW Forum Spring Conference, April 6-7, San Antonio, TX
- Exchange Monitor Decommissioning Strategy Forum, June 6-7, Las Vegas, NV
- Exchange Monitor Radwaste Summit, June 8-9, Las Vegas, NV
- Organization of Agreement States, August 15-18, Fort Worth, TX

 LLW Forum Fall Conference, October 12-13, Baltimore, MD Other Activities

- Monthly LLW Forum Board of Directors teleconferences
- Periodic LLW Forum agenda planning committee teleconferences
- Virtual attendance at monthly meetings of the Texas-Vermont Compact Commission
- Worked with Kathy Davis and Prime Concepts on establishing new website
- Processed 34 export petitions

Mr. Gaynor also listed the following plans for the next year:

- Arrange Commission visits to WIPP and Urenco in New Mexico
- Arrange Commission tour of Diablo Canyon nuclear generating station, possibly in conjunction with Spring Commission meeting
- Arrange generators workshop
- Waste Management '23 Symposium in Phoenix
- LLW Forum Spring Conference in Charleston, SC, March 22-23
- Contact with Governors of CA, AZ and SD regarding Commission vacancies

Licensing Agencies

Chair Earley recognized John Fassel of the California Department of Public Health, Radiologic Health Branch for a report from the licensing agency. Mr. Fassel reported that there is no licensing activity ongoing relative to a new disposal facility in California. The RHB is making good progress on bringing the LLRW Tracking System up to date. There are currently 1681 materials licensees in the state. The numbers have been slowly declining, as has the volume of LLRW being produced. Inspections have been running on schedule. Expecting an IMPEP in about 2 years. Planning on a 25% increase in hiring, however, for policy reasons, can't fill the Chief position, recently created by the retirement of Gonzalo Perez, until after March. In the meantime, Anthony Chu, the Division Chief, is filling the role.

License Designee Report

US Ecology, the "License Designee" was not in attendance; however, Mr. Joe Weismann, Director of Radiological Programs submitted the following statement:

"US Ecology is not presently undertaking efforts to develop a regional disposal facility for the Southwestern Compact region"

Party States Report

Commissioner Patrick reported that North Dakota has 123 licensees (including for TENORM). There is one vacancy in the agency due to a retirement. Rules are being revised to comply with NRC rule changes. This should be completed in 4-6 months. One TENORM landfill has been licensed, however, it is not yet active. Two license applications were received for processing TENORM and injecting TENORM waste into Class II injection wells, one license was issued March 1, 2021 and the other application was recently withdrawn.

Commissioner Emme reported that there are 33 NRC licensees in South Dakota, since they are not an Agreement State.

Vice Chair Goretzki reported that Arizona has 356 licensees. The agency is experiencing staffing challenges. Planning complete rules overhaul to make them more user friendly. He will be attending a uranium mine waste meeting in Denver. Inspectors recently discovered packaged radioactive waste from the Air Force at a metal scrap dealer. This situation is currently under investigation, but enforcement actions are likely. Expecting IMPEP in 2024.

Bylaws Amendment

Mr. Gaynor proposed amending the Bylaws to allow the dual signature requirement on certain checks to be satisfied by either electronic signature, or written authorization (e.g. electronic mail). After brief discussion, **Commissioner Patrick made a motion to approve the proposed Bylaws amendment, subject to accounting firm review. Motion was seconded by Vice Chair Goretzki. Motion passed unanimously by roll call vote.**

Exportation Petitions

Ratification of Approved Petitions 22-001-100 and WCS-22-001-043

Commissioner Patrick made a motion to ratify all petition approvals with the exception of E-22-097. Vice Chair Goretzki seconded the motion. Motion passed unanimously by roll call vote.

Commissioners directed the Executive Director to rescind the approval for E-22-097, since the petitioner is not the generator of the waste. The petition will have to be resubmitted for approval by the correct generator.

Commission voted to approve new export petitions with new effective dates. Unanimous approval by roll call vote.

Alaron shipments misrepresenting generator.

Mr. Gaynor updated the Commissioners on the situation where Alaron has been sending waste to the WCS facility, claiming themselves as the generator, when the actual generator was someone else. Unclear as yet whether any generator in the Southwestern Compact is involved. Mr. Gaynor is monitoring the situation. Chair Earley asked that this issue be continued on the next meeting agenda.

Financial Audit Report

The annual financial audit has been delayed as there were delays in finding a new auditing firm. Boden Klein & Sneesby, in Roseville, CA, has been selected and they are proceeding with the audit. A special, virtual meeting of the Commission will probably be required to approve the report when it is ready.

Personnel

Commissioners voted to extend legal counsel's contract for one year, with a compensation increase of 3%. Approved unanimously by roll call vote.

Commissioners voted to increase Executive Director's compensation by 10%, and replace the current one-year contract with a contract for a three-year term. Approved unanimously by roll call vote.

Governors' Annual Report

The Commissioners approved the Governors' Annual Report for submission.

Budget

The Commissioners voted to amend the 2022-23 Budget with a \$15,000 increase in planned travel expenses. Approved unanimously by roll call vote.

The Commissioners voted to approve the 2023-24 Budget. Approved unanimously by roll call vote.

Fee Schedule

The Commissioners voted to increase export petition fees to a minimum charge of \$550 for volumes up to 250 cubic feet, and \$2.20/cubic foot for volumes between 250 cubic feet and 40,000 cubic feet. The current charge of \$0.15/cubic foot for volumes above 40,000 cubic feet would continue unchanged. Approved unanimously by roll call vote.

Election of Officers

The Commissioners voted that Chair Earley and Vice Chair Goretzki continue in their respective offices. Approved unanimously by roll call vote.

Future Meetings

Meeting in January will be noticed to approve the financial audit report.

b. The Southwestern Low-Level Radioactive Waste Commission held the 91st meeting by videoconference on Friday, January 13, 2023.

All Commissioners were in attendance from California, Arizona, North Dakota and South Dakota. A quorum was present.

Financial Audit

The Commissioners reviewed and voted to approve the Financial Audit for fiscal year 2021-22. Approved unanimously by roll call vote.

c. The Southwestern Low-Level Radioactive Waste Commission held the 92nd meeting at the Francis Marion Hotel, 387 King Street, Charleston, SC., March 23, 2023, at the conclusion of the Low-Level Radioactive Waste Forum meeting.

All Commissioners were in attendance from California, Arizona, North Dakota and South Dakota. A quorum was present.

Executive Director Report

Executive Director Ron Gaynor reported on his activities since the Fall Commission Meeting on November 15, 2023. These included the following:

Conferences Attended

- Energy Solutions Conference, Salt Lake City, January 18-19
- Waste Management Symposium, Phoenix, February 26-30
- LLW Forum, Charleston, March 21-23

Other Activities

- Submitted Annual Governors Reports and Financial Audit
- Monthly LLW Forum Board of Directors teleconferences
- Virtual attendance at meetings of the Texas-Vermont Compact Commission
- Contacts with California Governor's office regarding Commission vacancies

- Arranging Commission tours of WIPP and Urenco, April 19-20
- Processed 73 export petitions through February 28

Consolidated credit card statements into accounting software
Planned Activities for 2023

- Arrange tour of Diablo Canyon nuclear generating station
- Arrange generators workshop
- LLW Forum agenda committee meetings
- LLW Forum Fall Conference in Salt Lake City, October
- Fall Commission meeting in conjunction with LLW Forum

Party States Report

Commissioner Patrick had nothing specific to report, but expressed an interest in hearing from Alaron Nuclear Services about the misattributed shipments that originated in North Dakota.

Commissioner Emme reported that South Dakota's legislative session had ended, and that there had been a resolution to form an interim legislative committee on nuclear power.

Vice Chair Goretzki reported Arizona's legislature is in session and there have been some bills introduced that may affect some materials users relative to training and experience. The Vice Chair stated that he is pleased with the new operating procedure where each state regulatory representative is copied on new export petition approvals.

Export Actions

Vice Chair Goretzki reviewed export petition HVF West, LLC AZ/E-22-097 that was previously denied at the Fall Commission Meeting. This was done because his staff had discovered that the waste was inappropriately in the possession of HVF West. Mr. Gaynor noted that HVF West had withdrawn the petition, and the waste had been returned to the U.S. Air Force, who is the actual generator of the waste.

Ratification of Approved Petitions E-22-101 through 107, E-23-001 through 035, WCS-22-044 through 048 and WCS-23-001 through 022.

Vice Chair Goretzki made a motion to ratify the listed petition approvals. Motion was seconded by Commissioner Patrick. Motion passed unanimously by roll call vote.

Update on investigation of Alaron shipments misrepresenting waste origin

Mr. Gaynor introduced Mr. Duane McLane, VP of Veolia (parent company of Alaron Nuclear Services), and stated that there had been a videoconference with

Mr. McLane and his staff, followed by an in-person discussion at the Waste Management 2023 Symposium in Phoenix. After that, Kelly Hart, counsel for Alaron Nuclear Services, sent the Commission a letter dated March 16, 2023, responding to Mr. Gaynor's letter of August 25, 2022 in which he requested detailed information on any misattributed shipments that had originated within the Southwestern Compact states.

Mr. McLane described the investigation conducted under his direction into the practices and procedures in place that led to the misattribution of some LLRW shipments to WCS and Energy Solutions. He also described the changes that Alaron had implemented to address these issues and prevent their recurrence. Mr. McLane also noted that the Texas Compact Commission had conducted an audit of Alaron's records at their offices in Pennsylvania, and had concluded that the procedural changes and controls put in place were acceptable and likely to prevent any future repeat of these infractions.

After discussion, the Commissioners agreed that no follow up with Alaron would be necessary, since the Texas Compact will be doing that. It was agreed, however, that the generators involved should be contacted and notified of their obligation to pay the export fees that were in place at the time of their shipments.

Commissioner Patrick made a motion that the generators on the list provided by Alaron's attorney should be contacted and invoiced for the fees associated with the misattributed shipments. Motion was seconded by Vice Chair Goretzki. Motion was passed unanimously by roll call vote.

B. COMMISSION MEMBERSHIP STATUS

Arizona, North Dakota, and South Dakota are each authorized one Commission member and one alternate. California, as the host state, is authorized four Commission members and one alternate. Having four California members is important because it permits the host state members to comprise at least 51 percent of the membership on the Commission, as authorized by the Southwestern Low-Level Radioactive Waste Disposal Compact Consent Act.

At the close of the fiscal year, there were five vacancies on the Commission: three commissioners for California, one commissioner for South Dakota, and one alternate for Arizona. In accordance with Public Law 100-712, the Governors of these respective states are to make appointments to fill these vacancies.

C. PROJECTIONS OF THE REGIONAL DISPOSAL FACILITY'S ANTICIPATED FUTURE CAPACITY

The projections of the facility's anticipated future capacity is unknown since no facility exists or is being planned. Current California law prohibits the licensed Ward Valley radioactive waste disposal site from serving as California's facility

for purposes of the Southwestern Low-Level Radioactive Waste Disposal Compact and prohibits disposing of low-level radioactive waste using shallow land burial. New requirements for a low-level radioactive waste disposal facility have yet to be developed by the California Department of Public Health.

D. DONATIONS, GRANTS AND OTHER RESOURCES ACCEPTED

No donations, grants or other resources were accepted during FY 2021-22

E. RECOMMENDATIONS: ALTERNATIVE TECHNOLOGIES

California, as host state, is responsible for selecting the low-level radioactive waste disposal technology. Current California law prohibits the disposal of low-level radioactive waste in shallow land burial, i.e., disposal of low-level radioactive waste in or within the upper 30 meters of the earth's surface. The law specifies the use of multiple, engineered barriers to provide for the retention of the radioactive waste within the engineered barriers to last not less than 500 years, using best available technology. No further recommendations have been made for alternative technologies.

ATTACHMENTS

- I. Low-Level Radioactive Waste Exporters in FY 2022-23
- II. FINANCIAL AUDIT REPORT: FY 2021-22 Under separate cover
- III. Budget for FY 2023-24
- IV. COMMISSION MEMBERSHIP

A list of Commission members, alternates, and staff is attached.

ATTACHMENT I – Low-Level Radioactive Waste Exporters in FY 2022-23

AbbVie Biotherapeutics, IncCA Adelphi Technology, IncCA Aemerge Redpak Services SC, LLC-CA Agilent Technologies-CA Altor Hospital-Nuclear Medicine Department-ND AMARG-Davis Monthan AFB-AZ Amgen SF, LLC-CA Amgen, Inc Thousand Oaks-CA Amgen, Inc Thousand Oaks-CA Arcus Biosciences-CA Arizona Public Service Company-AZ Arizona State University-AZ Astraea Therapeutics, LLC-CA Avanos Medical-AZ Avent, IncAZ Banner MD Anderson Cancer Center-AZ BioMarin Pharmaceutical, IncCA Bio-Rad Laboratories-CA Bazos Geotech, IncAZ Bistol Myers Squibb-CA BSK Associates-CA Cal EPA, Department of Toxic Substances Control-CA California State University, Lorg Beach-CA California State University, Log Angeles-CA California State University, Log Angeles-CA California State University, L	Aaron Swan & Associates-SD				
Aemerge Redpak Services SC, LLC-CA Agilent Technologies-CA Alco Iron & Metal-CA Altru Hospital-Nuclear Medicine Department-ND AMARG-Davis Monthan AFB-AZ Amgen SF, LLC-CA Amgen, Inc Thousand Oaks-CA Amgen, IncCA Arcus Biosciences-CA Arizona Public Service Company-AZ Arizona State University-AZ Astraea Therapeutics, LLC-CA Atara Biotherapeutics-CA aTyr Pharma-CA Avent, IncAZ Banner MD Anderson Cancer Center-AZ Bio-Rad Laboratories-CA Brazos Geotech, IncAZ Bristol Myers Squibb-CA BSK Associates-CA Cal EPA, Department of Toxic Substances Control-CA Cal Portland Company - Oro Grande-CA California State University, Fresno-CA California State University, Los Angeles-CA California State University, Los Angeles-CA California State University, Los Angeles-CA	AbbVie Biotherapeutics, IncCA				
Agilent Technologies-CA Alco Iron & Metal-CA Altru Hospital-Nuclear Medicine Department-ND AMARG-Davis Monthan AFB-AZ Amgen SF, LLC-CA Amgen, Inc Thousand Oaks-CA Amgen, IncCA Arcus Biosciences-CA Arizona Public Service Company-AZ Arizona State University-AZ Astraea Therapeutics, LLC-CA Atara Biotherapeutics-CA aTyr Pharma-CA Avonos Medical-AZ Avent, IncAZ BioMarin Pharmaceutical, IncCA Bio-Rad Laboratories-CA Brazos Geotech, IncAZ Bristol Myers Squibb-CA BSK Associates-CA Cal EPA, Department of Toxic Substances Control-CA California State University, Fresno-CA California State University, Los Angeles-CA California State University, Los Angeles-CA California State University, Los Angeles-CA	Adelphi Technology, IncCA				
Alco Iron & Metal-CA Altru Hospital-Nuclear Medicine Department-ND AMARG-Davis Monthan AFB-AZ Amgen SF, LLC-CA Amgen, Inc Thousand Oaks-CA Amgen, IncCA Arcus Biosciences-CA Arizona Public Service Company-AZ Arizona State University-AZ Astraea Therapeutics, LLC-CA Atara Biotherapeutics-CA aTyr Pharma-CA Avanos Medical-AZ Avent, IncAZ BioMarin Pharmaceutical, IncCA Bio-Rad Laboratories-CA Bistol Myers Squibb-CA BSK Associates-CA Cal EPA, Department of Toxic Substances Control-CA California State University, Fresno-CA California State University, Iong Beach-CA California State University, Los Angeles-CA	Aemerge Redpak Services SC, LLC-CA				
Altru Hospital-Nuclear Medicine Department-ND AMARG-Davis Monthan AFB-AZ Amgen SF, LLC-CA Amgen, Inc Thousand Oaks-CA Amgen, Inc CA Arcus Biosciences-CA Arizona Public Service Company-AZ Arizona State University-AZ Astraea Therapeutics, LLC-CA Atara Biotherapeutics-CA aTyr Pharma-CA Avanos Medical-AZ Avent, IncAZ Bionarin Pharmaceutical, IncCA Bio-Rad Laboratories-CA Bristol Myers Squibb-CA BSK Associates-CA Cal FPA, Department of Toxic Substances Control-CA California State University, Fresno-CA California State University, Los Angeles-CA California State University, Los Angeles-CA California State University. Los Angeles-CA California State University. Los Angeles-CA California State University. Fast Bay-CA	Agilent Technologies-CA				
AMARG-Davis Monthan AFB-AZAmgen SF, LLC-CAAmgen, Inc Thousand Oaks-CAAmgen, IncCAArcus Biosciences-CAArizona Public Service Company-AZArizona State University-AZAstraea Therapeutics, LLC-CAAtara Biotherapeutics-CAaTyr Pharma-CAAvanos Medical-AZAvent, IncAZBioMarin Pharmaceutical, IncCABioRad Laboratories-CABioStates-CACal EPA, Department of Toxic Substances Control-CACal FPA, Department of Toxic Substances Control-CACalifornia State University, Fresno-CACalifornia State University, Los Angeles-CACalifornia State University, Las Asyca	Alco Iron & Metal-CA				
Amgen SF, LLC-CAAmgen, Inc Thousand Oaks-CAAmgen, IncCAArcus Biosciences-CAArizona Public Service Company-AZArizona State University-AZAstraea Therapeutics, LLC-CAAtara Biotherapeutics-CAaTyr Pharma-CAAvanos Medical-AZAvent, IncAZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACalifornia State University, Fresno-CACalifornia State University, Los Angeles-CACalifornia State University, Los Angeles-CACalifornia State University, Los Angeles-CACalifornia State University-East Bay-CA	Altru Hospital-Nuclear Medicine Department-ND				
Amgen, Inc Thousand Oaks-CAAmgen, IncCAArcus Biosciences-CAArizona Public Service Company-AZArizona State University-AZAstraea Therapeutics, LLC-CAAtara Biotherapeutics, CLAAtara Biotherapeutics-CAaTyr Pharma-CAAvanos Medical-AZAvent, IncAZBanner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACalifornia State University, Fresno-CACalifornia State University, Log Beach-CACalifornia State University, Los Angeles-CACalifornia State University, Los Angeles-CACalifornia State University, East Bay-CA	AMARG-Davis Monthan AFB-AZ				
Amgen, IncCAArcus Biosciences-CAArizona Public Service Company-AZArizona State University-AZAstraea Therapeutics, LLC-CAAtara Biotherapeutics, CAaTyr Pharma-CAAvanos Medical-AZAvent, IncAZBanner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACalifornia State University, Fresno-CACalifornia State University, Log Beach-CACalifornia State University, Los Angeles-CACalifornia State University, Lesst Bay-CA	Amgen SF, LLC-CA				
Arcus Biosciences-CAArizona Public Service Company-AZArizona State University-AZAstraea Therapeutics, LLC-CAAtara Biotherapeutics-CAaTyr Pharma-CAAvanos Medical-AZAvent, IncAZBanner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACalifornia State University, Fresno-CACalifornia State University, Los Angeles-CACalifornia State University, Los Angeles-CACalifornia State University-East Bay-CA	Amgen, Inc Thousand Oaks-CA				
Arizona Public Service Company-AZArizona State University-AZAstraea Therapeutics, LLC-CAAtara Biotherapeutics-CAaTyr Pharma-CAAvanos Medical-AZAvent, IncAZBanner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACalifornia State University, Fresno-CACalifornia State University, Long Beach-CACalifornia State University, Los Angeles-CACalifornia State University-Rest Bay-CA	Amgen, IncCA				
Arizona State University-AZAstraea Therapeutics, LLC-CAAtara Biotherapeutics-CAaTyr Pharma-CAAvanos Medical-AZAvent, IncAZBanner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACalifornia State University, Fresno-CACalifornia State University, Long Beach-CACalifornia State University, Los Angeles-CACalifornia State University, East Bay-CA	Arcus Biosciences-CA				
Astraea Therapeutics, LLC-CAAtara Biotherapeutics-CAaTyr Pharma-CAAvanos Medical-AZAvent, IncAZBanner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACalifornia State University, Fresno-CACalifornia State University, Los Angeles-CACalifornia State University, Los Angeles-CACalifornia State University, Los Angeles-CACalifornia State University-East Bay-CA	Arizona Public Service Company-AZ				
Atara Biotherapeutics-CAaTyr Pharma-CAAvanos Medical-AZAvent, IncAZBanner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACallfornia State University, Fresno-CACalifornia State University, Los Angeles-CACalifornia State University, Los Angeles-CACalifornia State University-East Bay-CA	Arizona State University-AZ				
aTyr Pharma-CAAvanos Medical-AZAvent, IncAZBanner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACalifornia State University, Fresno-CACalifornia State University, Los Angeles-CACalifornia State University-East Bay-CA	Astraea Therapeutics, LLC-CA				
Avanos Medical-AZAvent, IncAZBanner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACal Portland Company - Oro Grande-CACalico Life Sciences, LLC-CACalifornia State University, Fresno-CACalifornia State University, Los Angeles-CACalifornia State University, Los Angeles-CACalifornia State University, East Bay-CA	Atara Biotherapeutics-CA				
Avent, IncAZBanner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACal Portland Company - Oro Grande-CACalifornia State University, Fresno-CACalifornia State University, Los Angeles-CACalifornia State University, Los Angeles-CACalifornia State University-East Bay-CA	aTyr Pharma-CA				
Banner MD Anderson Cancer Center-AZBioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACal Portland Company - Oro Grande-CACalico Life Sciences, LLC-CACalifornia State University, Fresno-CACalifornia State University, Long Beach-CACalifornia State University, Los Angeles-CACalifornia State University-East Bay-CA	Avanos Medical-AZ				
BioMarin Pharmaceutical, IncCABio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACal Portland Company - Oro Grande-CACalico Life Sciences, LLC-CACalifornia State University, Fresno-CACalifornia State University, Long Beach-CACalifornia State University, Los Angeles-CACalifornia State University, East Bay-CA	Avent, IncAZ				
Bio-Rad Laboratories-CABrazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACal Portland Company - Oro Grande-CACalico Life Sciences, LLC-CACalifornia State University, Fresno-CACalifornia State University, Long Beach-CACalifornia State University, Los Angeles-CACalifornia State University-East Bay-CA	Banner MD Anderson Cancer Center-AZ				
Brazos Geotech, IncAZBristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACal Portland Company - Oro Grande-CACalico Life Sciences, LLC-CACalifornia State University, Fresno-CACalifornia State University, Long Beach-CACalifornia State University, Los Angeles-CACalifornia State University-East Bay-CA	BioMarin Pharmaceutical, IncCA				
Bristol Myers Squibb-CABSK Associates-CACal EPA, Department of Toxic Substances Control-CACal Portland Company - Oro Grande-CACalico Life Sciences, LLC-CACalifornia State University, Fresno-CACalifornia State University, Long Beach-CACalifornia State University, Los Angeles-CACalifornia State University-East Bay-CA	Bio-Rad Laboratories-CA				
BSK Associates-CA Cal EPA, Department of Toxic Substances Control-CA Cal Portland Company - Oro Grande-CA Calico Life Sciences, LLC-CA California State University, Fresno-CA California State University, Long Beach-CA California State University, Los Angeles-CA California State University-East Bay-CA	Brazos Geotech, IncAZ				
Cal EPA, Department of Toxic Substances Control-CA Cal Portland Company - Oro Grande-CA Calico Life Sciences, LLC-CA California State University, Fresno-CA California State University, Long Beach-CA California State University, Los Angeles-CA California State University-East Bay-CA	Bristol Myers Squibb-CA				
Cal Portland Company - Oro Grande-CA Calico Life Sciences, LLC-CA California State University, Fresno-CA California State University, Long Beach-CA California State University, Los Angeles-CA California State University-East Bay-CA	BSK Associates-CA				
Calico Life Sciences, LLC-CA California State University, Fresno-CA California State University, Long Beach-CA California State University, Los Angeles-CA California State University-East Bay-CA	Cal EPA, Department of Toxic Substances Control-CA				
California State University, Fresno-CA California State University, Long Beach-CA California State University, Los Angeles-CA California State University-East Bay-CA	Cal Portland Company - Oro Grande-CA				
California State University, Long Beach-CA California State University, Los Angeles-CA California State University-East Bay-CA	Calico Life Sciences, LLC-CA				
California State University, Los Angeles-CA California State University-East Bay-CA	California State University, Fresno-CA				
California State University-East Bay-CA	California State University, Long Beach-CA				
	California State University, Los Angeles-CA				
Campo Hills Water Treatment Plant-CA	California State University-East Bay-CA				
	Campo Hills Water Treatment Plant-CA				

Cardinal Health NPS 7043-CA

Cardinal Health Nuclear Pharmacy-CA

Cedars-Sinai Medical Center-CA

Chemdepo, Inc.-CA

Chevron EMC-CA

CHI ST. Alexius-ND

Children's Hospital-LA-CA

City of Glendale Glendale Operable Unit GN-3/WBA Site-CA

City of Glendale-Grayson Power Plant-CA

City of San Diego Alvarado Water Treatment Plant-CA

ConfometRx-CA

CPN International Division of InstroTek, Inc.-CA

Cymer, LLC-CA

Defense Logistics Agency-San Diego, CA-CA

Defense Microelectronics Activity-McClellan-CA

EarthSpectives-CA

Eckert & Ziegler Isotope Products (Tibbitts)-CA

Eckert & Ziegler Isotope Products-CA

Energy Solutions-SONGS-CA

Environmental Micro Analysis-CA

Esoterix Endocrinology-CA

Eurofins Agroscience Services-CA

Eurofins Beacon Discovery-CA

Eurofins Eaton Analytical-CA

Fibrogen-CA

Firmenich, Inc.-CA

Freeport-McMoRan Sierrita, Inc.-AZ

GE Hitachi Nuclear Energy Americas, LLC/Vallecitos Nuclear Center-CA

GE Hitachi Nuclear Energy Americas-CA

Genentech, Inc.-CA

General Atomics-CA

Gilead Sciences, Inc.-CA

Guardian Industries - Kingsburg-CA

HRL Laboratories, LLC-CA

HVF West, LLC-AZ

IIVI Aerospace and Defense-CA

ImaginAB-CA

Intel Corporation Chandler Site-AZ

Intel Corporation-AZ

Inter Science Institute-CA

Isovac Engneering, Inc.-Ca

Janssen Research & Development, LLC-CA

Jet Propulsion Laboratory-CA

JR Simplot-CA

Kaiser Foundation Hospitals dba Kaiser Permanente Medical Center-CA

Kaiser Permanente Fontana Medical Center-CA

Kaiser Permanente Zion Medical Center-CA

Kaiser Permanente-CA

Lambda Research Optics, Inc.-CA

Leidos, Inc-CA

Lohnstar Optics, Inc.-CA

Mayo Clinic Hospital of Arizona-AZ

Maze therapeutics-CA

Minerals Technologies Inc-SD

Minn-Dak Farmer's Cooperative-ND

Moravek, Inc.-CA

Naval Weapons Station-China Lake, CA-CA

NGM Biopharmaceuticals, Inc.-CA

Northrop Grumman Systems Corporation-CA

Northrop Grumman-CA

Optivia Biotechnology-CA

Oxnard College-CA

Pacific BioLabs-CA

Pacific Gas & Electric/Diablo Canyon Power Plant-CA

PETNET Solutions, Loma Linda-CA

PETNET Solutions-CA

Pfizer La Jolla-CA

Phoenix VA Healthcare System-AZ

Pipeline Therapeutica, Inc.-CA

Polypeptide Laboratories San Diego- CA

Portsmouth Naval Shipyard (Naval Sub Base/Point Loma San Diego)-CA

Praire Lakes Healthcare System-SD

Proteogenomics Research Institute for Systems Medicine (PRISM)-CA

Puget Sound Naval Shipyard Naval Base Coronado-CA

Quest Diagnostics Nichols Institute-CA

Quest Diagnostics Valencia-CA

Radiation Physics & Engineering, Inc.-AZ Rayzebio, Inc.-CA **Research For Hire, Inc.-CA** San Diego State University-CA San Jose State University-CA Sanford University of South Dakota Medical Center-SD Santa Clara Valley Medical Center - Radiation Oncology-CA Septerna, Inc.-CA SFVAHCS, Radiation Safety Office-CA **SOFIE-CA** Southwestern Community College-CA Speedie & Associates, LLC - Phoenix-AZ **SRI Internationa-CA** St. Joseph Hospital of Orange-CA **Stanford University-CA Takeda Development Center of America-CA** Teledyne Defense Electronics, LLC dba Teledyne Reynolds-CA **Thermo Fisher Scientific- CA Trinity Health-ND UC Berkeley Hazardous Material Facility-CA** UCLA Medical Center/Harbor Nuclear Med-CA University of Arizona-Research Laboratory & Safety Services-AZ University of California, Irvine-CA University of California, San Diego-CA University of California, San Francisco-CA University of California, Santa Barbara-CA University of California, Santa Cruz-CA **University of California-Davis-CA** University of California-Los Angeles EH&S-CA University of Southern California-CA **US Geological Survey-CA US Navy-NAS Lemoore-CA** Valent U.S.A.-CA Vertex Pharmaceuticals-CA

ATTACHMENT II- FINANCIAL AUDIT REPORT - FY 2022-23

Under separate cover.

ATTACHMENT III - Budget for Fiscal Year 2023-24

APPROVED BUDGET FISCAL YEAR 2023-24 Approved by Commission 11/15/22

Approved by Commission 11/15/22	-	
INCOME Interest Exportation Fee Workshop Refund/Overcharge	\$	10,000 278,500 10,000 0
TOTAL INCOME	\$	298,500
EXPENSES Contractor Fees Travel (Staff & Commissioners) Telephone & Internet Electronic (website, support, security) Postage and mail services Auditing Service Professional services (P/T office help) Bond Office Expense Meeting Expenses Dues & Subscriptions Insurance Workshop Expense Misc. (printing, bank charges, legal education) Rebates Conference Registration Fees	\$	$192,300 \\ 52,000 \\ 1,700 \\ 3,000 \\ 2,050 \\ 4,000 \\ 3,000 \\ 400 \\ 500 \\ 4,700 \\ 10,200 \\ 18,500 \\ 10,000 \\ 870 \\ 375 \\ 4,800 \\ \end{array}$
TOTAL EXPENSES	\$	308,395
NET INCOME	\$	-9,895

ATTACHMENT IV

THE SOUTHWESTERN LOW-LEVEL RADIOACTIVE WASTE COMMISSION Each party state is represented by one Commissioner, appointed by the Governor and confirmed by the Senate of the appointing state. One member represents the host county and the host state is authorized additional members to comprise a majority of the Commission. Appointed alternates may act in a member's absence. The following individuals served as Commissioners, Alternates and staff during the past fiscal year.

COMMISSIONER

ALTERNATE COMMISSIONER

Vacant

ARIZONA Brian Goretzki Arizona Department of Health Services 4814 South 40th Street Phoenix AZ 85040

CALIFORNIA Donna L. Earley 124 Waterview St. Playa del Rey, Ca 90293

Vacant

Vacant

Vacant

NORTH DAKOTA Dale Patrick 9440 Cedar Lane Bismarck, ND 58503

SOUTH DAKOTA

Vacant

Peter S. Brierty San Bernardino County 28675 Hilltop Dr. Highland, Ca 92346

David Stradinger North Dakota Department of Health Gold Seal Center, Fourth Floor Bismarck, ND 58501

Nick Emme Department of Agriculture and Natural Resources 523 East Capitol (Foss Bldg.) Pierre S D 575701

•••••

COMMISSION STAFF

Ronald K. Gaynor, Executive Director 1731 Howe Avenue, #611 Sacramento, CA 95825

Peter Baldridge, Legal Counsel 1731 Howe Avenue #611 Sacramento,, CA 95825