

About LLW Forum

LLW Forum, established to facilitate state and compact implementation of the Low-Level Radioactive Waste Policy Amendments Act of 1985, promotes the objectives of the low-level radioactive waste regional compacts. LLW Forum provides opportunity for state and compact officials to share information with each other and to exchange views with officials of federal agencies and other interested parties.

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Acronyms Used in LLW notes

- CFR ♦ Code of Federal Regulations
- CRCPD ♦ Conference of Radiation Control Program Directors
- DOE ♦ US Department of Energy
- DOT ♦ US Department of Transportation
- EPA ♦ US Environmental Protection Agency
- IAEA ♦ International Atomic Energy Agency
- ICRP ♦ International Commission on Radiation Protection
- LLWF ♦ Low-Level Waste Forum
- NARM ♦ Naturally occurring and accelerator produced radioactive material
- NCRP ♦ National Council on Radiation Protection and Measurements
- NORM ♦ Naturally occurring radioactive material
- NRC ♦ US Nuclear Regulatory Commission
- OAS ♦ Organization of Agreement States
- TENORM ♦ Technologically enhanced naturally occurring radioactive material

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Forum Corner


 LLW
FORUM

Meeting Focus

The Board's focus at the November 10, 2021 meeting included:

- Extension of the ED contract through 2022
- Selection of Charleston, SC, as the location for the Spring Meeting in 2023
- Survey Monkey sent to LLW Forum fall attendees
- Transition of the accounting team
- Overview of expenses and approval of budget for CY 2022
- Issues related to import/export between Compacts

Meeting Dates

Board Meeting, December 8, 2021

LLW Forum Meetings

2022

Spring Meeting, San Antonio, April 6 - 7
Fall Meeting, Baltimore, October 12 - 13

2023

Spring Meeting, Charleston, SC
March 22 - 23

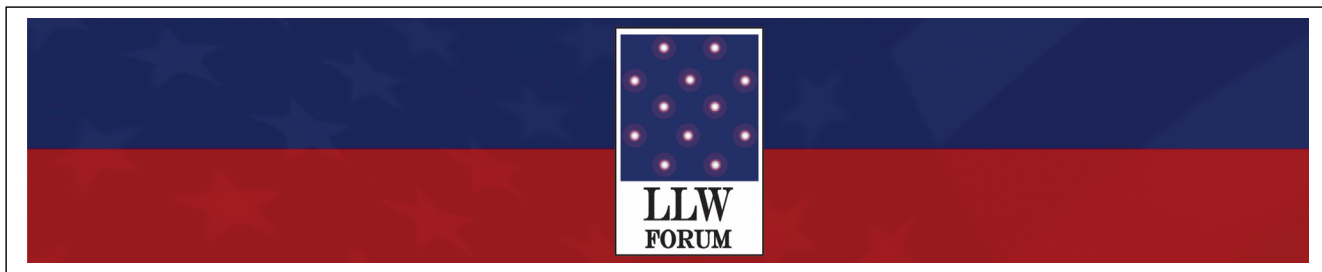
DSWG meeting at the LLWF's
Spring Meeting in 2022

Mission & Operations Committee - Strategic Plan Update

The draft Strategic Plan was shared on November 9, 2021 with the group. The Committee asked for review and feedback. The Strategic Plan will be voted on in January 2022.

Officers

Joe Klinger, Chair
Kristen Schwab, Chair-Elect
Earl Fordham, Past-Chair
Alyse Peterson, Treasurer



LOW-LEVEL RADIOACTIVE WASTE FORUM

RESOLUTION 2021-2
 HONORING TED M BUCKNER
 BOARD MEMBER
 TREASURER
 EXECUTIVE DIRECTOR OF THE SOUTHEAST COMPACT

December 31, 2021

WHEREAS, the Low-Level Radioactive Waste Forum (Forum) was organized to serve the interests of the Interstate Low-Level Radioactive Waste Compacts and the States in implementing the Federal Low-Level Radioactive Waste Policy Act (1980) and subsequent Amendments Act of 1985;

WHEREAS, Ted M Bucker faithfully and diligently served the Southeast Compact for over thirty years; including serving as the LLW Forum's Treasurer for eleven years;

WHEREAS, as a board member, Ted worked to advance the goals of the Interstate Low-Level Radioactive Waste Compacts and States through close interaction with federal and state government agencies, the nuclear power industry, other generators of low-level radioactive waste, commercial waste management businesses, low-level radioactive waste advocacy groups, and various professional organizations;

WHEREAS, effective December 31, 2021, Ted retired, concluding his many years of service to the Southeast Compact and the LLW Forum;

NOW, THEREFORE, BE IT RESOLVED that the Forum, on behalf of its members, recognizes Ted M Buckner and hereby:

Expresses the Forum's deepest appreciation and gratitude for his extensive service, invaluable contributions, dedicated leadership, and unwavering commitment to the Forum as a Board Member and Treasurer; and

Wishes him well in his future professional and personal endeavors and interests.

BE IT FURTHER RESOLVED that this resolution be presented to Ted M Buckner in recognition of his years of service and contributions to the Low-Level Radioactive Waste Forum.

PRESENTED this 31st day of December 2021.

 Joseph G. Klinger, Chair
 Low-Level Radioactive Waste Forum

Disused Sealed Radioactive Sources

Disused Sources Working Group Update

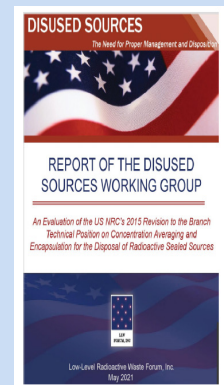
by Michael Klebe

The Disused Sources Working Group (DSWG) completed its evaluation of the impact that the NRC's 2015 revision to the Branch Technical Position on Concentration Averaging and Encapsulation. Overall, the revision has "improved the classification process through added clarity, allowing for the use of larger disposal containers and providing the flexibility to apply the least restrictive classification." This report is available on the DSWG website – www.disusedsources.org.

The DSWG had a hybrid meeting on October 15, 2021, with some attending in person in Denver following the LLW Forum meeting and others using WebEx meeting services. The Group was briefed on some encouraging developments for Type B shipping casks. NAC International has two cask designs (Optimus L and H) pending before the NRC for certification. These casks are currently certified for use in Canada. NRC approval is expected soon.

The Group also discussed the remaining recommendations from their 2014 report "A Study of the Management and Disposition of Sealed Sources from a National Security Perspective." A few of the recommendations require discussion with the NRC which will occur once COVID restrictions allow. The remaining recommendations have either been set aside for future consideration or are currently being researched by the supporting contractors.

The next meeting of the DSWG will be held in conjunction with the April 2022 LLW Forum meeting in San Antonio, TX.



DSWG

Appalachian States Low-Level Radioactive Waste Compact Commission Meeting

By David J. Allard, CHP



The Appalachian States Low-Level Radioactive Waste Compact Commission (ACC or Commission) held its annual meeting in Harrisburg, PA on November 5, 2021. Information can be found online at –

<https://www.dep.pa.gov/Business/RadiationProtection/Appalachian/Pages/default.aspx> and <https://www.dep.pa.gov/Business/RadiationProtection/Appalachian/Pages/Meetings-and-Bylaws.aspx>

The General Assembly of the Commonwealth of Pennsylvania created the Commission by enacting the Appalachian States Low-Level Radioactive Waste Compact Act, Act 1985-120. The Commonwealth and states of Delaware, Maryland, and West Virginia each passed identical laws to form a compact to provide for the regional management and disposal of low-level radioactive waste (LLRW) in response to the federal law. This interstate Commission was approved by Congress. In that Pennsylvania was (and still is) the largest generator of LLRW, it was determined PA would be the “host state” for a LLRW disposal site, and annual meetings of the Commission would be held in PA. Given no local communities supported the siting endeavors in the '90s, and there was continued access out of state for LLRW disposal, the effort was suspended in the fall of 1998.

Despite the reduced workload by staff for development of a disposal site, the PA Department of Environmental Protection (DEP) Bureau of Radiation Protection (BRP) continued to manage the Commission and its assets over the years, coordinated annual fiscal audits, tracked LLRW disposal, publish required reports, and hosted annual meetings. Because of pandemic travel restrictions in 2020, the Commission had to meet in Baltimore, MD that fall. This year the annual meeting was back at the traditional location in Harrisburg. It was a hybrid meeting with many state representatives attending in person, and

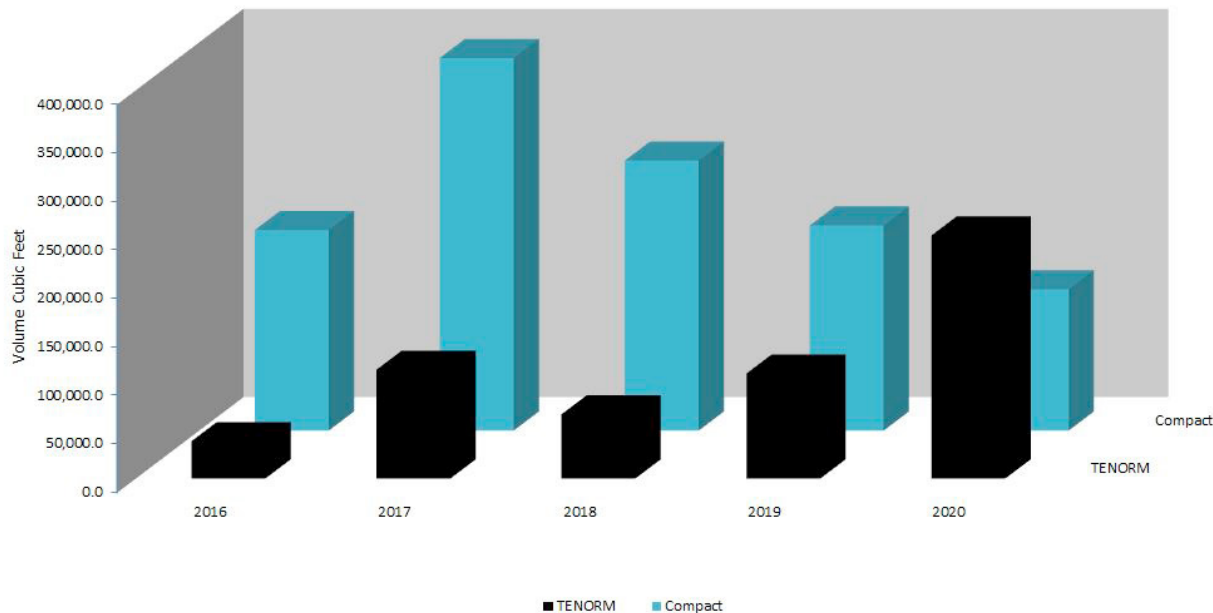
others attending virtually.

Business items included approval of the agenda for this year’s meeting, review and approval of the previous meeting minutes, and amending the Bylaws to allow for fully virtual annual meetings if needed. The Bylaws had a provision that required four members to “be physically present in a publicly announce meeting place.” Other presentations involved an update on out-of-state LLRW disposal sites, a review of LLRW disposal volume and activity trends from the Compact states, a look-back and removal of several years of TENORM waste data that had been tallied as LLRW, discussion of using interest revenue from 1990s surcharge fees of operations, and review of the audit and budget. In reviewing the LLRW generator data this year, it was discovered that a significant volume of Oil & Gas related TENORM waste was shipped to licensed disposal sites in UT and TX, and was reported to the DOE MIMS tracking database as LLRW. The ACC does not consider unlicensed TENORM to be LLRW. A re-analysis of the data by DEP staff is shown on the following page in table and graphic form. Interestingly, the volume of TENORM waste disposed of in CY2020 exceeded that of LLRW.

The Commission also informed the US DOE in March 2021, that they would be utilizing the interest from approximately \$1.65M of surcharge funds for operational needs. Those funds are being held in reserve for restart of the siting process [if needed]. The last order of business was election of Chair and Vice-chair for the next 12 months. BRP Director Allard was re-elected Chairman, and Kaley Laleker (MD) was elected Vice-chair. The Commission greatly appreciates the efforts of Rich Janati in his continued role as Administrator over the years, as well as the support from various BRP staff. Rich retired from BRP in July 2020 after an outstanding 35 year career as Division Chief for Nuclear Safety. Thank you Rich!

Appalachian States Low-Level Radioactive Waste Compact Commission Meeting
- continued

Disposed Compact LLRW and TENORM by Volume 2016 - 2020



* Waste data is given with TENORM waste that was included in the Compact. This chart separates waste that is considered TENORM and compares the values to the rest of the waste generated within the Compact.

Disposed Compact LLRW and TENORM 2016 - 2020

Years	TENORM		LLRW	
	Volume (ft ³)	Activity (Ci)	Volume (ft ³)	Activity (Ci)
2016	38400	0.9123	206649	2229
2017	112032	2.73	383856	1890
2018	66048	1.88	278136	42153
2019	108096	2.86	211271	907
2020	250344	3.50	145545	1213
Total	574,920	12.0	1,225,457	48,392

This table separates waste that is considered TENORM and compares the values to the rest of the waste generated within the Compact. It compares both volume and activity.

Southwestern Low-Level Radioactive Waste Compact Seeks Executive Director

The Southwest Low-Level Radioactive Waste Compact Commission is seeking a self-driven and highly competent individual to support our Compact operations. The Compact represents the citizens of California, Arizona, North Dakota and South Dakota and is tasked with assuring proper disposal of radioactive waste generated in and/or from our compact states.

Duties of the Executive Director will include managing day to day operations, optimizing financial operations, maintaining positive relationships with internal and external stakeholders and to plan agendas for Compact meetings, Workshops and Tours while continuing to be engaged with other Compacts, the Low-Level Waste Forum (LLW Forum), industry conferences, and as necessary, traveling to other such organizational events such as but not limited to Health Physics Society, Rad Waste/Exchange Monitor, and Decommissioning, Storage and Transportation.

The ideal candidate must possess a strong entrepreneurial drive, capable of multi-tasking, outstanding communication skills, strong leadership qualities and good planning skills. This will allow one to be responsive to changing goals and priorities, manage several complex tasks simultaneously, analyze a variety of data/sources and formulate workable recommendations for the Commissioners.

In order to meet Compact Law requirements, the Applicant MUST reside in the State of California.

This part-time contracted position requires approximately 20 hours/ per week, and includes occasional travel for meeting and site tours. Part-time office/clerical assistance is available if needed.

The Commission is currently accepting applications and intends to fill the position as soon as possible. A complete job description is available upon request.

Please submit inquiries and resumes to the SWLLRWCC Chair, Donna Earley at donna@donnaearley.com.

Appalachian Compact

Delaware • Maryland •
Pennsylvania • West Virginia

Meeting

November 5, 2021

See article in this edition for details.

U.S. Nuclear Regulatory Commission's Analysis of TMI-2 Solutions Decommissioning Funding Status Report for Three Mile Island Nuclear Station, Unit 2, Docket No. 50-320 (EPID No. L-2019-PMP-0141) (ML21342A163) <https://adamswebsearch2.nrc.gov/webSearch2/main.jsp?AccessionNumber=ML21342A163>

U.S. NRC's Analysis of Exelon's Decommissioning Funding Status Report for Three Mile Island Nuclear Station, Unit 1, Docket No. 50-289 (EPID No. L-2019-PMP-0065) (ML21342A154)

<https://adamswebsearch2.nrc.gov/webSearch2/main.jsp?AccessionNumber=ML21342A154>

Atlantic Compact

Connecticut •
New Jersey • South Carolina

Meeting

April 2022

Date to be announced

For more information please contact max@atlanticcompact.org

NRC Atomic Safety and Licensing Board to Hold Oral Argument on Oconee Subsequent License Renewal

A Nuclear Regulatory Commission Atomic Safety and Licensing Board will conduct an oral argument via WebEx on Nov. 16 regarding a petition to hold an

adjudicatory hearing on Duke Energy's application to renew the operating licenses of Oconee Nuclear Station Units 1, 2 and 3 for an additional 20 years. The units are located in Seneca, South Carolina.

The oral argument will begin at 1 p.m. Eastern Time. It will address proposed contentions from petitioners Beyond Nuclear and the Sierra Club challenging aspects of the dam failure impacts analysis of applicant Duke Energy's environmental report. The three administrative judges on the Board will hear argument from representatives for the petitioners, Duke Energy and the NRC staff.

Boards conduct adjudicatory hearings on major licensing actions by the NRC and are independent of the NRC staff. A Board's rulings may be appealed to the Commission, the five-member body that sets NRC policy.

Source: NRC News Release No: 21-046 November 8, 2021

Contact: Scott Burnell, 301-415-8200

NRC Proposes \$150,000 Civil Penalty for Violations at New Jersey Nuclear Power Plant Undergoing Decommissioning

The Nuclear Regulatory Commission has proposed a \$150,000 fine for Holtec Decommissioning International, LLC, for apparent security-related violations at the Oyster Creek nuclear power plant.

Because of the sensitive nature of these violations, the NRC will not publicly provide specifics; however, the agency has determined the overall security program at the non-operational plant remains effective. Holtec has taken steps to address the concerns and overall security performance at the site.

The plant, located in Lacey Township (Ocean County), New Jersey, permanently ceased operations in September 2018 and is in the process of being decommissioned. The NRC license for the plant was transferred on July 1, 2019, to Holtec, which now owns the facility and is carrying out its decommissioning.

NRC staff notified Holtec about the apparent violations on July 28, 2021, which were identified during a discretionary inspection conducted between

May 17 and July 15, 2021. In response, Holtec requested and took part in a closed pre-decisional enforcement conference held at the NRC Region I Office in King of Prussia, Pennsylvania, on Oct. 6, 2021, during which the company provided additional information to the NRC.

Holtec has 30 days to pay the fine, contest the notice of violation or request alternative dispute resolution with the NRC.

Source: NRC News Release No: I-21-010
December 22, 2021

Contact: Diane Screnci, 610-337-5330
Neil Sheehan, 610-337-5331

Central Compact

Arkansas • Kansas • Louisiana • Oklahoma

Meeting

Friday, December 17, 11:00 am – 11:30 am

An Emergency Teleconference Meeting of the Central Interstate LLRW Commission will be held on Friday, December 17, 2021, at 10:00 a.m.

The purpose of the meeting is to amend the Fiscal Year 2022 budget for the audit and all other business to come before the Commission.

Contact Kristie Valtierra cillrwcc@gmail.com.

FY 22 Budget

<http://www.cillrwcc.org/wp-content/uploads/2021/12/FY2022Budget.pdf>

FY 22 Budget with Amendments

<http://www.cillrwcc.org/wp-content/uploads/2021/12/FY2022BudgetwithAmendments.pdf>

Midwest Compact

Indiana • Iowa • Minnesota • Missouri • Ohio • Wisconsin

NRC Seeks Public Comment on Draft Environmental Impact Statement for Point Beach Subsequent License Renewal

NRC staff seeks the public's views regarding the agency's draft Environmental Impact Statement on NextEra Energy's application for an additional 20 years of operation for Point Beach Nuclear Plant, Units 1 and 2. The NRC is interested in comments regarding the statement's draft conclusion: environmental impacts are not great enough to prevent the agency from considering issuance of the renewed licenses.

NRC staff will consider written comments regarding the draft EIS until Jan. 3, 2022, following the publication of a notice in the Federal Register. Include Docket ID NRC-2020-0277 with your comment, via the [regulations.gov](https://www.regulations.gov) website. Comments can also be submitted via email to PointBeach-SLRSEIS@nrc.gov or via U.S. mail to Office of Administration, Mail Stop: TWFN-7-A60M, ATTN: Program Management, Announcements and Editing Staff, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. The staff will hold a webinar on the draft EIS, including a presentation regarding the preliminary findings and a transcribed public comment session. The webinar details will be announced in the near future.

NextEra filed the application on Nov. 16, 2020, seeking to renew the licenses for a second time. The Point Beach units are pressurized-water reactors, located approximately 13 miles northeast of Manitowoc, Wisconsin. The subsequent license renewal process determines whether an operating reactor can extend its license for an additional 20 years (initial license renewals add 20 years to a reactor's original 40-year license). The application, with proprietary details removed, is available on the NRC website. In addition, a copy of the draft EIS is available for public inspection at the Lester Public

Library, 1001 Adams St. in Two Rivers, Wisconsin.

Source: NRC News Release No: 21-047 November 9, 2021

Contact: Scott Burnell, 301-415-8200

Southeast Compact

Alabama • Florida • Georgia •
Mississippi • Tennessee • Virginia

Search for Executive Director

The Commission reposted the notice in search of an Executive Director and is looking for a self-motivated and highly accomplished Executive Director with a demonstrated record of success to provide leadership for day-to-day operations of the Commission. The Director will assist the Commission in developing and implementing a vision and strategic plan to guide the organization. The part-time position had an opening date of November 15, a closing date of December 15 and a starting date of February 15, 2022. For any updates, see <https://secompact.org/>

Crystal River Unit 3 Nuclear Generating Plant - Issuance of Amendment No. 260 Approving the Independent Spent Fuel Storage Installation Only Security Plan, Rev 3 (License No. DPR-72, Docket Nos. 50-302 and 72-1035)

Crystal River Unit 3 Nuclear Generating Plant - Issuance of Amendment No. 260 Approving the Independent Spent Fuel Storage Installation Only Security Plan, Rev 3 (ML21322A270) <https://adamswebsearch2.nrc.gov/webSearch2/main.jsp?AccessionNumber=ML21322A270>

To access document(s) please search by accession number using the following link: <https://adams.nrc.gov/wba/>

NRC Increases Oversight at Vogtle Unit 3

The Nuclear Regulatory Commission will increase oversight at one of the Vogtle nuclear power plants

under construction in Waynesboro, Georgia, after finalizing two inspection findings involving the safety-related electrical raceway system at Unit 3. Southern Nuclear Operating Company operates the site.

The NRC launched a special inspection in June 2021 to understand the cause and extent of construction quality issues in the electrical raceway system, consisting primarily of conduits and cable trays designed to prevent a single event from disabling redundant safety-related equipment.

The finalized inspection findings include two violations of federal regulations. NRC inspectors found that Southern Nuclear did not properly implement its corrective action program, resulting in construction quality issues, extensive rework, and a report to the NRC for a significant quality assurance breakdown. They also found that the company did not follow design specifications while installing safety-related cables for reactor coolant pumps and equipment designed to shut down the reactor safely.

Source: NRC News Release No: II-21-22 November 18, 2021

Contact: Dave Gasperson, 404-997-4417

Southwestern Compact

Arizona • California • South Dakota • North Dakota

Search for Executive Director

The Commission is seeking an Executive Director. See the article in this issue.

NRC Terminates Humboldt Bay Nuclear Power Plant License

The Nuclear Regulatory Commission has terminated the license for the Humboldt Bay Power Plant, Unit 3, in California and released the site for unrestricted use. The termination comes after Pacific Gas & Electric Co. successfully decommissioned the facility to meet the NRC's radiation protection standards.

Humboldt Bay Unit 3 was a boiling water reactor operated by PG&E from 1963 to 1976. Units 1 and 2 at the site, located approximately 4 miles from Eureka, California, in Humboldt County, were fossil fuel power plants that were previously decommissioned. PG&E currently operates a separate fossil fuel plant adjacent to the site.

Source: NRC News Release No: 21-051 November 18, 2021

Contact: David McIntyre, 301-415-8200

San Onofre Nuclear Generating Station – NRC Inspection Report 05000361/2021-004 AND 05000362/2021-004

From Letter December 3, 2021

This letter refers to the U.S. Nuclear Regulatory Commission's (NRC's) inspection conducted on November 15-18, 2021, at the San Onofre Nuclear Generating Station (SONGS), Units 2 and 3. The NRC inspector discussed the results of this inspection with you and members of your staff during a final exit meeting conducted on November 18, 2021. The inspection results are documented in the enclosure to this letter.

This inspection examined activities conducted under your license as they relate to public health and safety, the common defense and security, and to confirm compliance with the Commission's rules and regulations, and with the conditions of your license. Within these areas, the inspection consisted of selected examination of procedures and representative records, observations of site meetings, performance of independent radiation measurements, and interviews with personnel. Specifically, the inspector reviewed decommissioning planning activities for SONGS Units 2 and 3, and the implementation of the solid radioactive waste management and transportation programs. Within the scope of the inspection, no violations were identified, and a response to this letter is not required.

Texas Compact Texas • Vermont

Meetings

December meeting - canceled

Thursday, January 27, 2022

via Zoom Meeting webinar and in person at the Texas State Capitol in Austin, TX. When available, the agenda will be posted at <http://www.tllrwddc.org/about-the-comission/public-meetings/>

Thursday, April 7, 2022

via Zoom Meeting webinar and in person in San Antonio, TX

Sunset Advisory Commission Invites Public Input on the Texas Low-Level Radioactive Waste Disposal Compact Commission

To make comments:

Send an email to sunset@sunset.texas.gov

Submit comments online at www.sunset.texas.gov

Send a letter to Sunset Advisory Commission, Attn: compact commission, P.O. Box 13066, Austin, Texas 78711

Call (512) 463-1300 to speak to Robert Romig, project manager of the compact commission review

Please provide your comments by February 1, 2022 to ensure Sunset staff can fully consider your input while conducting their review. Comments submitted before the staff report is published in May 2022 will remain confidential.

Decommissioning

NRC Proposed Rule on Regulations of Nuclear Power Plants Transitioning from Operations to Decommissioning

The Nuclear Regulatory Commission has approved a proposed rule to amend agency regulations for nuclear power plants transitioning from operations to decommissioning. The proposed rule will be published for public comment in the Federal Register following changes directed by the Commission. Find the documents at <https://adamswebsearch2.nrc.gov/webSearch2/main.jsp?AccessionNumber=ML21307A046>

Current NRC regulations establish safety requirements for the commercial operation of nuclear power plants. However, the regulations do not reflect the lower safety hazard following removal of fuel from the reactor during decommissioning. As a result, the NRC has allowed incremental changes to various requirements – including emergency preparedness – through exemptions and license amendments. The proposed rule would implement specific regulatory requirements for these steps.

“Several nuclear power plants have begun decommissioning over the past decade, and at least three more reactors are expected to cease operations within the next four years,” said NRC Chairman Christopher T. Hanson. “This regulation incorporates lessons learned from plants that have already transitioned to decommissioning and will establish clear and transparent requirements for the future. I am convinced that the proposed approach will provide adequate protection while improving the effectiveness and efficiency of the decommissioning regulatory framework.”

Hanson emphasized the importance of public participation in the rulemaking process.

“Decommissioning isn’t just about the licensee and the plant – it also affects the communities that surround them,” said Hanson. “Public comment has twice played an important role in the development of this proposed rule when we published an Advance Notice of Proposed Rulemaking and later with a draft regulatory basis. We are seeking public comment on the proposed rule to ensure that we have this right, as this is the public’s opportunity to influence a regulation that will guide future nuclear plant decommissioning.”

Once the staff has revised the proposed rule as directed by the Commission, it will be published in the Federal Register. Publication will initiate a 75-day public comment period, expected several weeks from now.

In approving the proposed rule, the Commission disapproved two proposals put forward by the NRC staff regarding management of spent nuclear fuel. It disapproved the staff’s recommendation to generically allow plant operators to use decommissioning trust funds to manage and decommission their spent fuel storage facilities. The Commission also disapproved the staff’s recommendation to remove preliminary approval and final NRC review of a licensee’s Irradiated Fuel Management Program.

The Commission’s staff requirements memorandum approving the rule, along with an enclosure detailing edits directed by the Commission, and the Commissioners’ voting records will be available on the NRC website.

Source: NRC News Release No: 21-043 November 3, 2021

Contact: David McIntyre, 301-415-8200

Regulatory Meetings & Publications

NRC Announces 34th Regulatory Information Conference

The U.S. Nuclear Regulatory Commission's Annual Regulatory Information Conference (RIC) is the largest public meeting the agency hosts, bringing together nearly 3,000 participants from more than 30 countries representing interested stakeholders from other government agencies, industry, international organizations, and the general public. The RIC is sponsored by the Office of Nuclear Reactor Regulation and the Office of Nuclear Regulatory Research, and offers an open environment in which diverse groups of stakeholders may learn, share, and discuss information on significant and timely nuclear regulatory activities and emergent issues. The RIC offers an illustrious technical program featuring experts from across the agency as well as speakers from industry, academia, and the community. Throughout the conference, attendees may participate in dynamic sessions featuring panelists addressing a broad range of topics of interest. To complement the technical program, interactive digital exhibits will be available for participants to view at their leisure. Attendees also have an opportunity to participate in tours of the NRC Operations Center to round out their overall conference experience. Join us as we showcase the wave of innovation and transformation happening at the NRC!

The 2022 RIC will be a hybrid event. The in-person portion will be conducted at the Bethesda North Marriott Hotel and Conference Center, and an online platform will be available for virtual participation. Please check back frequently for conference information updates. The agenda will be available in January 2022. See <https://www.nrc.gov/public-involve/conference-symposia/ric/index.html>

Strategic Programmatic Overview of the Decommissioning and Low-Level Waste and Nuclear Materials Users Business Lines (Public Meeting)

Thursday, January 27, 2022, 9 am (Contact: Celimar Valentin-Rodriguez: 301-415-7124)
Additional Information: The public is invited to attend the Commission's meeting live by webcast at the Web address – <https://video.nrc.gov/>

Information Digest, 2021–2022 (NUREG-1350, Volume 33)

The Digest is now available on the NRC website. For the chapter on radioactive waste, the audio version may be found at <https://www.nrc.gov/media/reading-rm/doc-collections/nuregs/staff/sr1350/audio/audiobook-chapter5.mp3>

Interim Storage Facilities and Consent-Based Siting Process

DOE Restarts Consent-Based Siting Program for Spent Nuclear Fuel, Requests Input on Interim Storage Process - Community and Stakeholder Feedback Will Help Determine Next Steps for Consent-Based Siting Process to Identify Interim Storage Locations for the Nation's Spent Nuclear Fuel

“Hearing from and then working with communities interested in hosting one of these facilities is the best way to finally solve the nation’s spent nuclear fuel management issues,” said Secretary of Energy Jennifer M. Granholm. “We know there are real benefits from jobs to new infrastructure that will result in interest in areas across the country. The public’s input is central to identifying those locations to make this process as inclusive and effective as possible.”

Notice of Request for Information (RFI) on Using a Consent-Based Siting Process to Identify Federal Interim Storage Facilities

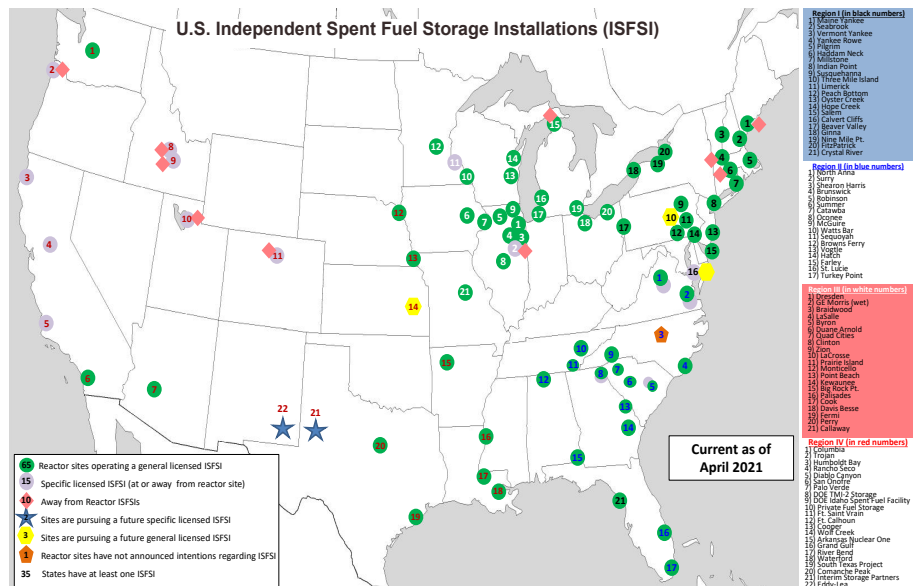
The Office of Nuclear Energy (NE), U.S. Department of Energy (DOE), requests information on how to site Federal facilities for the temporary, consolidated storage of spent nuclear fuel using a consent-based approach. DOE anticipates that communities; governments at the local, State, and Tribal levels; members of the public; energy and environmental justice groups; organizations or corporations; and other stakeholders may be interested in responding to this Request for Information (RFI). We especially welcome insight from people, communities, and groups that have historically not been well-represented in these discussions. Responses to the RFI will inform development of a consent-based siting process, overall strategy for an integrated waste management system, and possibly a funding opportunity.

Responses to the RFI must be received by March 4, 2022 by 5:00 p.m. (ET). See the Federal Register notice: <https://www.federalregister.gov/documents/2021/12/01/2021-25724/notice-of-request-for-information-rfi-on-using-a-consent-based-siting-process-to-identify-federal>

Also see DOE’ consent-based licensing and webinar: <https://www.energy.gov/ne/consent-based-siting-for-general-information>.

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Spent Fuel Storage Installations



Source: NRC at <https://www.nrc.gov/docs/ML2111/ML21116A041.pdf>

Nuclear Security & Transportation

MN - Lost Static Eliminator

"New Flyer reported the loss of a static elimination device that contained a 370 MBq (10 milliCi) Po-210 source. The cause of the event was determined to be lack of procedure."

KS- Lost Licensed Device

"An anti-static device has gone missing from the Western Industries Plastic Products facility."

MA - Missing Thallium-201 Shipment

"Lantheus Medical Imaging, Inc. notified the Agency that a thallium-201 (73.1 hr half-life) shipment in route to RLS USA, Inc. went missing in transit during vehicle maintenance operations. The vehicle had a flat tire that needed to be replaced. During the tire change, the packages were removed from the vehicle in order to complete the maintenance."

AL - Unauthorized Disposal of Radioactive Materials

"Alabama Dept. of Agriculture Veterinary Diagnostic Lab in Auburn, Alabama confirmed that the electron capture detector (ECD) was incinerated by an unauthorized/unlicensed company. The ECD had a nominal activity of 15 millicuries of nickel-63."

TN- Lost Brachytherapy Seed

"During the removal of I-125 seeds from a patient, only 22 of 23 seeds were recovered. It was concluded that the seed was not present in the patient upon operating room entry. Isotope: I-125 Activity: 1.6 mCi"

GA - Lost Portable Troxler Gauge

A portable Troxler gauge (Model 3430) with an Am-241/CS-137 was lost by a common carrier. The activity of the source is unknown at this time.

CT - Deviation of Delivery Procedure by Common Carrier Staff Leaving Radioactive Material Unattended

"A Medical Oncology employee discovered a radioactive source package when exiting the Medical Oncology suite. [The source was a 10 Ci Ir-192 source. On contact readings with the package were 4.2 mR/hr and one meter survey reading was 0.6 mR/hr.]"

US Army - Lost Tritium Range Indicator

On December 9, 2021, the Radiation Safety Officer (RSO) was notified that a range indicator for a mortar system, containing a 3.2 Curie Tritium source, had been lost for over a year at the Iowa National Guard in Johnston. The source is considered lost."

LA - Notification of Abandonment of Well Logging Sources

"On December 8, 2021, the state was notified by Halliburton Energy Services, Inc., via email concerning well logging sources that were abandoned downhole. According to the RSO, the two sources were one 555 GBq (15 Ci) Eckert and Ziegler Model LWD4173, source s/n EZ16008 and one 74 GBq (2.0 Ci) QSA Global, Model CDC.CY13, source s/n 54903B. Halliburton was performing directional drilling for Whitney Oil & Gas LLC. The well was in inland waters."

CO - Lost Tritium Exit Signs

Two Tritium (H-3) exit signs (6.2 Ci each) were reported as lost on annual registration 12/07/2021.

UT - Lost Troxler Density Gauge

"A licensee gauge operator lost/misplaced a Troxler portable nuclear density gauge model 3411 (SN 12109), [containing 8 mCi of Cs and 40 mCi of Am-Be]. The gauge was left unattended on the floor and later the gauge was not there."

Nuclear Security & Transportation

**NRC licensee - Stolen / Recovered
Radioactive Material**

"On December 2, 2021, the RSO was contacted by the FBI regarding scrap bags of radioactive material discovered in a raid that belong to the licensee. The FBI sent the licensee pictures of the material. The licensee believes the combined scrap bags of radioactive material contains 100 Curies of Tritium. The dates on the bags are from 2012 to 2017. The RSO is unsure how long the scrap bags of material have been missing."

AZ - Lost I-125 Seed

"On December 1, 2021, the Department was notified by the licensee of one missing I-125 radioactive seed for breast tumor localization."

FL - Missing Troxler Gauge

"Atlantic Drilling Supply Co. called about a missing Troxler gauge (#21834) which has sent to his company for service. The shipper cannot locate the gauge."

GA - Missing Shipment

"The licensee contracted a common carrier to transport a Sr-82/Rb-82 generator to their RWM [radioactive waste management] site in Utah from the Warner Robins Facility (temporary job site). The package never arrived."

NJ - Lost Ni-63 Source

"Rutgers University informed the New Jersey Department of Environmental Protection that one sealed source device, with an installed source, cannot be found and is considered lost. The Ni-63, electron capture detector source contained 15 mCi of activity."

**The Role of Safety and Security in
Transport of Radioactive Material
Discussed at Vienna Conference**

<https://www.iaea.org/newscenter/news/the-role-of-safety-and-security-in-transport-of-radioactive-material-discussed-at-vienna-conference>

**Safe and Secure Transport of
Radioactive Material: New IAEA
Publication Issued**

"Labelling packages, vehicles and freight containers with the black-and-yellow trefoil radiation symbol during transport of nuclear and radioactive materials is a safety requirement to inform about the nature and the material transported. However, at the same time, this label reveals the contents of the shipment to those intending to do harm.

This is an example of the type of issues that can arise between safety and security considerations addressed in the new publication."

<https://www.iaea.org/newscenter/news/safe-and-secure-transport-of-radioactive-material-new-iaea-publication-issued>

**Managing the Interface between Safety
and Security for Normal Commercial
Shipments of Radioactive Material**

<https://www.iaea.org/publications/13609/managing-the-interface-between-safety-and-security-for-normal-commercial-shipments-of-radioactive-material>

Citation: International Atomic Energy Agency, Managing the Interface between Safety and Security for Normal Commercial Shipments of Radioactive Material, Technical Reports Series, 2021

Source: IAEA

IAEA's endorsement of users' views, products or services is not stated or implied in any way.

High Level Waste

High-Level Radioactive Waste (HLW) Interpretation

The U.S. Department of Energy (DOE) is issuing a Federal Register Notice (FRN) notifying the public of the results of its assessment of its interpretation of the statutory term “high-level radioactive waste (HLW),” as defined in the Atomic Energy Act of 1954, as amended, and the Nuclear Waste Policy Act of 1982, as amended.

After extensive policy and legal assessment, DOE has determined that the HLW interpretation is consistent with the law, guided by the best available science and data, and that the views of members of the public and the scientific community were considered in its adoption. The HLW interpretation continues to be a useful, science-based tool to help further its radioactive waste cleanup mission. The implementation of the interpretation is consistent with existing laws and regulations. Where implemented, the HLW interpretation enables the Department to better address one of its largest environmental risks by potentially allowing the opening of new disposition paths for reprocessing waste with no near-term path for disposal that has been stored for decades at DOE sites. The Department will not use the HLW interpretation at sites without prior meaningful engagement with the local communities, affected tribal nations, and federal and state regulators.

Federal Register notice <https://www.energy.gov/sites/default/files/2021-12/FRN-Assessment-of-DOE-HLW-Interpretation-12-21-2021-86-FR-72220.pdf>

Low-Level Radioactive Waste Disposal Compact Membership

Northwest Compact

- Alaska
- Hawaii
- Idaho
- Montana
- Oregon
- Utah
- Washington
- Wyoming

Midwest Compact

- Indiana
- Iowa
- Minnesota
- Missouri
- Ohio
- Wisconsin

Appalachian Compact

- Delaware
- Maryland
- Pennsylvania
- West Virginia

Rocky Mountain Compact

- Colorado
- Nevada
- New Mexico

Northwest accepts Rocky Mountain waste as agreed between Compacts

Central Midwest Compact

- Illinois
- Kentucky

Atlantic Compact

- Connecticut
- New Jersey
- South Carolina

Southwestern Compact

- Arizona
- California
- South Dakota
- North Dakota

Texas Compact

- Texas
- Vermont

Central Compact

- Arkansas
- Kansas
- Louisiana
- Oklahoma

Southeast Compact

- Alabama
- Florida
- Georgia
- Mississippi
- Tennessee
- Virginia

Unaffiliated States

- District of Columbia
- Maine
- Massachusetts
- Michigan
- Nebraska
- New Hampshire

- New York
- North Carolina
- Puerto Rico
- Rhode Island

Membership details available at llwforum.org/membership/

Information Resources

- DOE Public Affairs/Press Office - 202/586-5806
- DOE Distribution Center - 202/586-9642
- EPA (for program information, publications, laws and regulations) www.epa.gov
- EPA Information Resources Center - 202/260-5922
- EPA Listserve Network Contact Lockheed Martin EPA Technical Support at (800) 334-2405 or email (leave subject blank and type help in body of message) listserv@unixmail.rtpnc.epa.gov
- Government Accounting Office (GAO) Document Room - 202/512-6000
- Government Printing Office (to order entire *Federal Register* notices) - 202/ 512-1800
- Legislative Resource Center (to order U.S. House of Representatives documents)- 202/226-5200
- NRC Public Document Room - 202/ 634-3273
- NRC Reference Library (NRC regulations, technical reports, information digests, and regulatory guides) www.nrc.gov
- U.S. Government Printing Office (GPO) (for the Congressional Record, Federal Register, congressional bills and other documents, and access to more than 70 government databases) <http://www.access.gpo.gov>
- U.S. Senate Document Room - 202/224-7860
- Variety of documents through numerous links at LLW Forum, Inc. at www.llwforum.org

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