Compilation of Email Communications
11-17-22 to 2-22-2023

Deep Borehole Disposal of Radioactive Waste: Next Steps and Applicability to National Programs

From: David G. Victor
Sent: Thursday, November 17, 2022 9:34 AM
To: Manuel Camargo; Lorraine Quinn Sandstrom; Daniel T. Stetson; Martha McNicholas
Subject: (External): Fwd: Report | Deep Borehole Disposal of Radioactive Waste: Next Steps and Applicability to National Programs

Pls include in next circular. Useful overview of borehole concepts

Sent from limited typing device

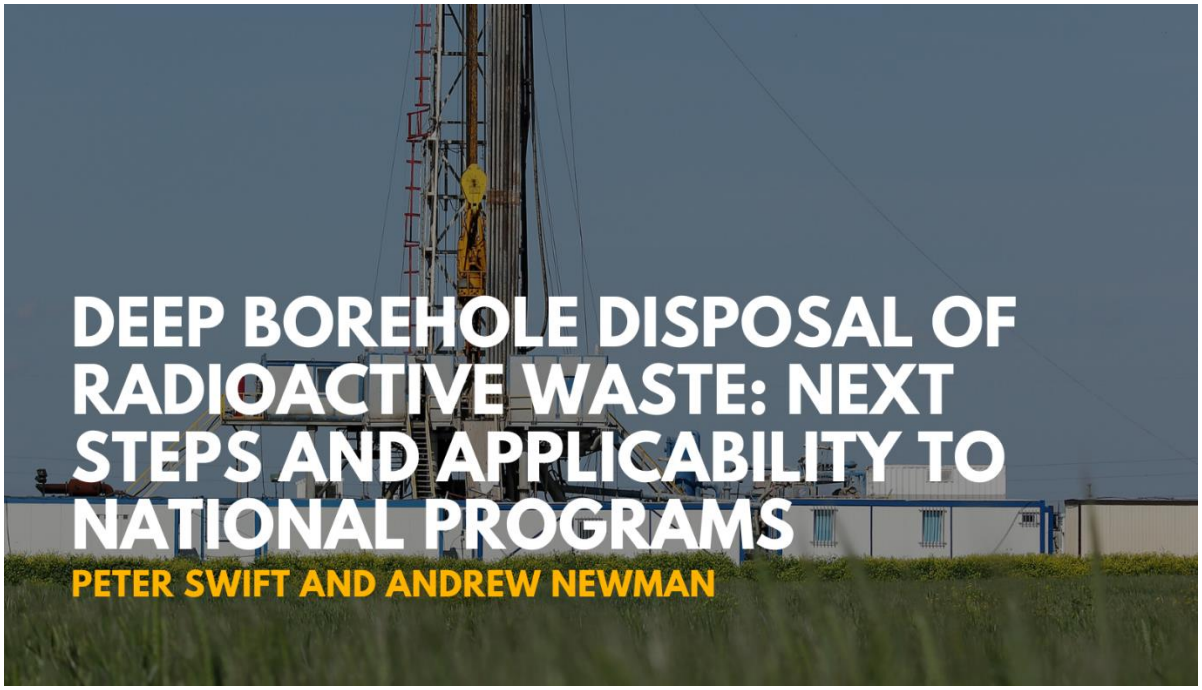
Begin forwarded message:

From: Center on Global Energy Policy
Date: November 17, 2022 at 8:29:45 AM GMT-7
To: David G. Victor
Subject: Report | Deep Borehole Disposal of Radioactive Waste: Next Steps and Applicability to National Programs
Reply-To: Center on Global Energy Policy

Report | Deep Borehole Disposal of Radioactive Waste: Next Steps and Applicability to National Programs

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Report

Deep Borehole Disposal of Radioactive Waste: Next Steps and Applicability to National Programs

As the global energy crisis worsens, more countries are looking to finance new nuclear reactors in addition to keeping existing reactors online. These power plants will unavoidably generate a small amount of long-lived radioactive waste that must be safely managed and ultimately disposed of.

Mined repositories have been the most studied concept to date for high-level nuclear waste disposal facilities, but deep boreholes represent an unproven, alternative approach that could potentially be more attractive for specific waste inventories or individual countries. In this report, authors Peter Swift and Andrew Newman review borehole disposal concepts proposed to date, identify potentially suitable waste forms worldwide, and propose a multinational field test program that would use nonradioactive materials to inform future decision making.

Read the Report

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No attachment. Direct links within text above.
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Nuclear Waste’s biggest problem? It’s misunderstood

From: David G. Victor
Sent: Sunday, December 4, 2022 6:20 AM
To: Ted Quinn; Manuel Camargo; Daniel T. Stetson
Subject: (External): Re: Nuclear waste's biggest problem? It's misunderstood

Thanks Ted. Manuel: I think we should include this piece in the next CEP circular. Matt is terrific, and this is short and well-informed. David

From: Ted Quinn
Date: Saturday, December 3, 2022 at 10:52 AM
To: David G. Victor, Manuel Camargo, Daniel T. Stetson
Subject: FW: Nuclear waste's biggest problem? It's misunderstood

Good article by Matt Wald
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From: ANS Nuclear SmartBrief
Sent: Wednesday, November 30, 2022 7:15 AM
To: Ted Quinn
Subject: Nuclear waste's biggest problem? It's misunderstood

November 30, 2022

American Nuclear Society

Nuclear SmartBrief

News about nuclear science and technology SIGN UP · SHARE

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TOP STORY

Nuclear waste's biggest problem? It's misunderstood

Much of the debate around nuclear waste is underpinned by misperceptions that must be addressed if nuclear energy is to play a role in decarbonization, writes energy analyst Matthew Wald. In this article, Wald digs deep into the nuclear waste issue to uncover the facts about different types of waste, their hazards, longevity and management.

Full Story: The Breakthrough Institute (11/29)

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What a feelin', being's believin', I can have it all, now I'm dancing for my life.

Irene Cara,
singer, actor
1959-2022

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For Awareness: CPUC Proceeding for SONGS Decommissioning Costs

From: Manuel Camargo
Sent: Thursday, January 12, 2023 9:47 AM
To: David G. Victor; Daniel T. Stetson; Martha McNicholas; Michelle Anderson; Mike Balsamo; Lisa Bartlett; Garry Brown; Jim Desmond; Chris Duncan; Rob Howard; Sam Jammal; Scott Kibbey; Marni Magda; Ted Quinn; John Taylor; Mel Vernon; Michael Villar; Val Macedo
Cc: Steve Carlson; Pauline Colvin; Christian Abueg; Mike Frost; Mike Sappingfield; Ken Schultz; Laura Ferguson; Kristal Jabara; Holly Martino; Mark Riddlebarger; Doug Bauder; Vincent J Bilovsky; Lorraine Quinn Sandstrom; Liese Mosher; Jose Perez; Sue Garcia; James Peterson
Subject: For Awareness: CPUC Proceeding for SONGS Decommissioning Costs

Dear CEP members,

For your awareness, the California Public Utilities Commission (CPUC) is hosting a WebEx evidentiary hearing in connection with the Nuclear Decommissioning Cost Triennial Proceeding for SONGS decommissioning expenditures in the 2018 to 2020 timeframe. This is part of the CPUC's standard reasonableness review of costs for decommissioning as incurred by co-owners Southern California Edison and San Diego Gas & Electric. Attached are details on the hearing which is set for January 24 to 26.

Members of the public may observe the hearing. An administrative law judge will preside over the proceeding and make a proposed decision. Commissioners make the final decision.

Best regards,

Manuel

Manuel C. Camargo Jr.
Principal Manager for Strategic Planning
SONGS/SCE

Attachment #1 – Joint Application of SCE and SDG&E for the 2021 NDCTP, 1-6-2023
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World Nuclear News (WNN) Daily: Application lodged for construction of French repository

From: David G. Victor
Sent: Wednesday, January 18, 2023 10:41 AM
To: Manuel Camargo
Cc: Ted Quinn; Dan Stetson**;** Martha McNicholas; Lorraine Quinn Sandstrom
Subject: (External): Re: (External): FW: WNN Daily: Application lodged for construction of French repository
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Thanks Ted. Yes, let's include this in the next compilation

Sent from limited typing device

On Jan 18, 2023, at 7:38 PM, Manuel Camargo wrote:

+ Martha and Lorraine

Thanks, Ted. Not exactly consent-based siting although a next step includes public comment. More progress at the international level.

Shall we include in the next CEP email compilation?

From: Ted Quinn
Sent: Wednesday, January 18, 2023 10:29 AM
To: David G. Victor; Manuel Camargo; Dan Stetson
Subject: (External): FW: WNN Daily: Application lodged for construction of French repository

Making sure you see this also

Ted

From: World Nuclear News
Sent: Wednesday, January 18, 2023 8:57 AM
To: Ted Quinn
Subject: WNN Daily: Application lodged for construction of French repository

Application lodged for construction of French repository : Waste & Recycling - World Nuclear News (world-nuclear-news.org)

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FYI: Forum with Union of Concerned Scientists

From: Manuel Camargo
Sent: Thursday, February 2, 2023 10:45 AM
To: David G. Victor; Daniel T. Stetson; Martha McNicholas; Michelle Anderson; Mike Balsamo; Lisa Bartlett; Garry Brown; Jim Desmond; Chris Duncan; Rob Howard; Sam Jammal; Scott Kibbey; Marni Magda; Ted Quinn; John Taylor; Mel Vernon; Michael Villar; Val Macedo
Cc: Steve Carlson; Pauline Colvin; Christian Abueg; Mike Frost; Mike Sappingfield; Ken Schultz; Laura Ferguson; Kristal Jabara; Holly Martino; Mark Riddlebarger; Doug Bauder; Vincent J Bilovsky; Lorraine Quinn Sandstrom; Liese Mosher; Jose Perez; Sue Garcia; James Peterson; Ronald Pontes
Subject: FYI: Forum with Union of Concerned Scientists

Dear CEP Members,

Samuel Lawrence Foundation is hosting an online forum regarding nuclear safety at 11:30 am tomorrow, Feb. 3, with a representative of the Union of Concerned Scientists. More information available HERE.

Provided for your awareness.

Best regards,

Manuel

Manuel C. Camargo Jr.
Principal Manager, Strategic Planning
Southern California Edison | San Onofre Nuclear Generating Station

No attachment. Direct links within text above.
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FYI: SONGS Permit Renewal Process and Timing

From: Manuel Camargo
Sent: Tuesday, February 7, 2023 5:15 PM
To: David G. Victor; Daniel T. Stetson; Martha McNicholas; Michelle Anderson; Mike Balsamo; Garry Brown; Jim Desmond; Chris Duncan; Rob Howard; Sam Jammal; Scott Kibbey; Marni Magda; Ted Quinn; John Taylor; Mel Vernon; Michael Villar; Val Macedo
Cc: Steve Carlson; Pauline Colvin; Christian Abueg; Mike Frost; Mike Sappingfield; Ken Schultz; Laura Ferguson; Kristal Jabara; Holly Martino; Mark Riddlebarger; Doug Bauder; Vincent J Bilovsky; Lorraine Quinn Sandstrom; Liese Mosher; Jose Perez; Sue Garcia; James Peterson; Ronald Pontes; Jessica Rankin; Derek J. Brice
Subject: FYI: SONGS Permit Renewal Process and Timing

Dear CEP Members and Alternates,

As we have discussed previously, SCE is seeking renewal of our National Pollutant Discharge Elimination System (NPDES) permit from the San Diego Regional Water Quality Control Board (RWQCB) which governs non-radiological releases from SONGS to the ocean. The RWQCB is accepting written comments through 5 pm PST on March 6, 2023. A public hearing to consider renewal of the permit for another five-year period will take place on April 12, 2023, in Laguna Beach. See the attached public notice for details.

Provided for your information.

Best regards,
Manuel

Manuel C. Camargo Jr.
Principal Manager, Strategic Planning
Southern California Edison | San Onofre Nuclear Generating Station

Attachment #2 – SONGS Permit Renewal Process and Timing - Public Notice, 2-2-2023
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For Awareness: Two Recent San Clemente Times Articles Related to San Onofre

From: Lorraine Quinn Sandstrom
Sent: Wednesday, February 22, 2023 2:00 PM
To: David Victor; Dan Stetson; Martha McNicholas; Michelle Anderson; Mike Balsamo; Garry Brown; Jim Desmond; Victor Cabral; Rob Howard; Sam Jammal; Scott Kibbey; Marni Magda; Val Macedo; Ted Quinn; John Taylor; Mel Vernon; Michael Villar; Mark Enmeier; Kristal Jabara; John Gabbard; Mark Riddlebarger; Mike Sappingfield; Ken Schultz
Cc: Manuel Camargo
Subject: For Awareness: Two Recent San Clemente Times Articles Related to San Onofre

Dear CEP Members and Alternates,

I write to share two recent articles published in the San Clemente Times related to San Onofre. The first is a guest opinion article by Gary Headrick (San Clemente Green) and the second is the response by Southern California Edison. Links to both articles are provided below.

Guest opinion by Gary Headrick: A Thank You Note to Edison Employees and a Reminder to Us All | San Clemente Times

SCE response by Manuel Camargo: The Shared Interest in Safely Decommissioning San Onofre and Clearing the Site of Spent Fuel | San Clemente Times

Kind Regards,
Lorraine Sandstrom
Community Affairs and Relations, Senior Specialist
Community Engagement Panel (CEP) Management and Stakeholder Engagement (DA Complex -B)
Southern California Edison, San Onofre Nuclear Generating Station (SONGS)

No attachment. Direct links within text above.
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FYI: SONGS 2023 1Q Outfall Test

From: Manuel Camargo
Sent: Wednesday, February 22, 2023 5:32 PM
To: David G. Victor; Daniel T. Stetson; Martha McNicholas; Michelle Anderson; Mike Balsamo; Garry Brown; Jim Desmond; Cabral, Victor; Rob Howard; Sam Jammal; Scott Kibbey; Marni Magda; Val Macedo; Ted Quinn; John Taylor; Mel Vernon; Michael Villar; Mark Enmeier; Kristal Jabara; John Gabbard; Mark Riddlebarger; Mike Sappingfield; Ken Schultz
Cc: Lorraine Quinn Sandstrom; Doug Bauder; Vincent J Bilovsky; Albert Bates; Mark E Morgan; Ronald Pontes; Kelli Gallion-Sholler; Julie Holt; Sue Garcia; Amy F Pressler; James Peterson
Subject: FYI: SONGS 1Q 2023 Outfall Test

Dear CEP Members and Alternates,

As required by the SONGS National Pollutant Discharge Elimination System (NPDES) permit, routine toxicity testing is performed quarterly at the outfall. The purpose of the testing is to assess the toxicity impact on aquatic organisms due to discharge of treated wastewater to the ocean. Samples for the 1Q 2023 test were obtained on Feb. 7 and on Feb. 21, SONGS received a laboratory report that showed a failed test result.

Separate analysis of the sample water chemistry for salinity, dissolved oxygen, pH, alkalinity, and the like were within normal ranges. These tests have no relationship to radiological material. SCE is fully compliant with radiological regulations set by the US NRC.

Analysis of the water sample was performed by an independent laboratory certified by the State of California that meets minimum test acceptability under US Environmental Protection Agency protocols, and are subject to Quality Assurance program requirements. The test measures fertilization rates in an organism—for SONGS, the Purple Sea Urchin—after exposure to the water sample over a period of time as compared to a control sample. Resulting data is subjected to a statistical analysis to determine a pass or fail.

SCE notified the relevant regulator—the San Diego Regional Water Quality Control Board—and is following the permit's testing requirements. If needed, SCE will perform a toxicity reduction evaluation work plan in accordance with permit requirements. SCE also reported the event to the NRC.

One of SCE's core principles for decommissioning SONGS is environmental stewardship. SCE is strongly committed to taking action to promptly restore compliance and ensure the safety of the natural environment, workers, and the public.

Please let me know if you have questions.

Best regards,

Manuel C. Camargo Jr.
Principal Manager, Strategic Planning
San Onofre Nuclear Generating Station Decommissioning
Southern California Edison

No attachment. Direct link within text above.
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