

EPRI Soil and Groundwater Remediation Guidelines

A Review

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29th Annual Regulatory Information Conference


Bethesda, MD
March 16, 2017



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EPRI's Mission
Advancing *safe, reliable, affordable* and *environmentally responsible* electricity for society through global collaboration, thought leadership and science & technology innovation



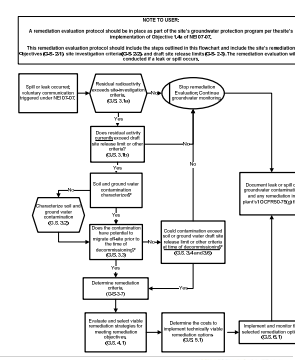
Three Key Aspects of EPRI:
Independent, Non-profit, Collaborative

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Soil and Groundwater Remediation Guidelines for Nuclear Power Plants

- Technical guidance for development of a Remediation Decision Making Process.
- Evaluate if and when remediation is needed (and how):
 - Operation
 - Decommissioning
- Developed by EPRI and EPRI Groundwater Guidelines Committee:
 - Subject Matter Experts
 - Utility Members
 - Colleague Organizations (INPO, NEI)

NOTE TO USER:
A remediation evaluation protocol should be in place as part of the site's groundwater protection program per the site's implementation of Executive Order 13123. This remediation evaluation protocol should include the steps outlined in this flowchart and include the site's remediation program (EPRI's Remediation Evaluation (RE) SOP and site-specific remediation (EPRI's RE) SOP). The remediation evaluation will consist of a set of eight steps.



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Remediation Decision Making Objectives and Criteria Definitions

- Site Remediation Objective:
 - Ultimate goal of remediation project(s).
 - Dose based
 - Qualitative
 - Radionuclide concentration based
 - Considerations:
 - Potential for off-site migration
 - Potential impact to plant operation
 - Potential impacts to decommissioning planning and costs
 - Potential to exceed site release criteria at license termination.
 - U.S. NRC limit: 25 mrem/yr.
 - Some states/local stakeholders may require lower dose limits.
 - Other site-specific criteria

NOTE TO USER:
A remediation evaluation protocol should be in place as part of the site's groundwater protection program per the site's Remediation Evaluation Protocol (RES-EVAP). This remediation evaluation protocol should include the steps outlined in this flowchart and include the site's remediation plan and AES-5.35. The investigation criteria AES-5.34 and AES-5.35 are used to evaluate the remediation evaluation with consideration of site-specific criteria.

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Accessing the Guidelines

- Soil and Groundwater Remediation Guidelines: Public Edition (1023464)
 - <http://www.epri.com/abstracts/Pages/ProductAbstract.aspx?ProductId=00000000001023464>

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