

and will rely on it in the rulemaking phase of the design certification review process pursuant to 10 CFR 52.51.

A copy of the AP1000 F'SER and FDA have been placed in the NRC's Public Document Room, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852, for review and copying by interested persons.

Dated in Rockville, Maryland, this 13th day of September, 2004.

For the Nuclear Regulatory Commission  
**William D. Beckner,**

*Program Director, New Research and Test Reactors Program Division of Regulatory Improvement Programs, Office of Nuclear Reactor Regulation.*

[FR Doc. 04-20988 Filed 9-16-04; 8:45 am]

BILLING CODE 7590-01-P

## NUCLEAR REGULATORY COMMISSION

### Requests Comments on a Draft Environmental Assessment Related to a U.S. Nuclear Regulatory Commission Decision To Take No Further Action at the Kiski Valley Water Pollution Control Authority Site

The U.S. Nuclear Regulatory Commission (NRC) is considering the alternative of issuing a decision of no further action for the Kiski Valley Water Pollution Control Authority (KVVWPCA) site in Leechburg, Pennsylvania and has prepared a draft Environmental Assessment (EA) in support of this action.

The NRC staff has developed a draft EA to address this action (see Section II of this **Federal Register** notice). In accordance with both the NRC and Federal guidance, NRC is requesting stakeholders comments regarding the action for inclusion to the EA. If any interested stakeholders have comments regarding the NRC's draft EA, please provide them within 30 days from the date of this **Federal Register** notice so they may be fully considered. If you require additional information, please contact the project manager, Kenneth Kalman, at 301-415-6664 or by e-mail at [klk@nrc.gov](mailto:klk@nrc.gov).

#### I. Summary

KVVWPCA operates a waste water treatment plant in Leechburg, Pennsylvania, about 40 kilometers (25 miles) northeast of Pittsburgh on the flood plain of the Kiskiminetas River. From 1976 to 1993, KVVWPCA treated sewage sludge by incineration. KVVWPCA disposed of the resulting sewage sludge ash by mixing it with water to form a liquid slurry and pumping this material into an onsite

lagoon. Discharges to the lagoon ceased in 1993 and plans for closure were developed in 1994. Subsequent analyses revealed that subsurface uranium contamination was present in the ash lagoon. The NRC staff conducted a dose assessment related to the incinerator ash lagoon at the KVVWPCA site and has determined that the ash meets the NRC's criteria for releasing sites for unrestricted use under the License Termination Rule 10 CFR Part 20, Subpart E. The KVVWPCA site is not licensed by the NRC. Since the material in the ash lagoon meets the criteria for unrestricted use, NRC has determined that the site can be released from NRC jurisdiction without further remedial action.

#### II. Environmental Assessment

##### Introduction

In 1994, plans were made to remove the ash from the lagoon at the KVVWPCA site. In the course of site closure, the Pennsylvania Department of Environmental Resources notified NRC that elevated uranium concentrations had been found in an ash sample from the KVVWPCA site. Subsequent analyses revealed that subsurface uranium contamination was present at concentrations of up to 34 becquerels per gram (Bq/g) [923 picocuries per gram (pCi/g)] total uranium, and that the material was enriched to approximately 4% uranium-235. Further characterization revealed that the volume of the contaminated ash is approximately 9,000 cubic meters (320,000 cubic feet) and that the total uranium inventory is approximately 32-41 gigabecquerels (0.85-1.1 Ci), resulting in an average total uranium concentration of approximately 3.0 Bq/g (80 pCi/g). The contaminated ash is highly heterogeneous and the highest levels of contamination are found over a relatively small area, at a depth of 2 to 3 meters (m) [7 to 10 feet (ft)]. Radionuclides other than uranium are also present, but at much lower concentrations.

The contamination is believed to have resulted from the reconcentration of uranium-contaminated effluents released from the sanitary sewers and laundry drains of the Babcock & Wilcox (B&W) Apollo facility. During its operation, the B&W Apollo facility conducted fuel manufacturing and fabrication. Upon successful completion of its decommissioning activities, the NRC terminated the B&W Apollo site's license on April 14, 1997. There is no evidence suggesting that the discharges from the B&W Apollo facility exceeded permissible levels during operation.

NRC, KVVWPCA, and the Pennsylvania Department of Environmental Protection (PADEP) have engaged in numerous interactions on the decommissioning of the KVVWPCA site. By letter dated November 7, 2003, NRC staff informed KVVWPCA that it would be conducting a dose assessment to determine what actions should be taken at the KVVWPCA site. This letter also noted that PADEP has taken the position that under Pennsylvania's Solid Waste Management Act, the ash in the lagoon should be removed and properly disposed of per the Commonwealth's jurisdiction over the material as solid waste. Therefore, the NRC staff's dose assessment included scenarios for leaving the ash on site as well as scenarios for removing the ash.

NRC staff conducted dose assessments for a range of potential scenarios. These scenarios include a removal scenario, in which the contaminated ash is excavated and removed to an offsite disposal facility, and an onsite no-action scenario, in which the lagoon is abandoned in place with no remedial actions performed. The onsite scenarios included a reasonably foreseeable future land use case and a pair of less likely cases used as assessment tools to bound the uncertainty associated with future land use. In all of the scenarios, doses from the groundwater pathway are expected to be significantly limited by the relatively non-leachable form of uranium in the ash as determined by leaching tests.

It is likely that the contaminated ash will be removed from the lagoon, and that the site will continue to be used as a waste water treatment plant. Thus, the critical group in the removal scenario is the workers who excavate the contaminated ash and are exposed through inhalation of resuspended fine contaminated ash particles and direct irradiation. In addition, to address the possibility that the ash may be removed to a RCRA-permitted landfill, potential impacts of more aggressive leachate chemistry (low or high pH conditions) on uranium mobility were considered and the range of doses to a hypothetical individual residing near the landfill was qualitatively evaluated.

The dose to workers who excavate and remove the ash is expected to be approximately 0.15 mSv (15 mrem). Since any removal operation would take considerably less than one year, this constitutes the total annual dose in the year of removal. Doses to ash removal workers are dominated by the inhalation of uranium-234 and uranium-238 along with a small additional dose from external exposure. Doses to the ash removal workers are limited by the

relatively low average concentration of these isotopes, the limited exposure time during excavation of the ash, and the limited respirability of the ash particles.

Three cases of the onsite no-action scenario, in which the ash is assumed to be left in place without any remedial action, were also evaluated. These include a recreational use case, in which the property is converted into a riverside park; an agricultural use case; and an intrusion case, in which it is assumed that a volume of ash is excavated for the construction of a basement and the excavated ash is spread on the land surface. These cases, while less likely, were evaluated because they are useful assessment tools. Since they comprise a range of future land usages and include all exposure pathways, they can be used to bound other scenarios and, therefore, provide an evaluation of the uncertainty associated with future land use.

In the event that the contaminated ash remains onsite with no remedial action taken, the assumption of a recreational exposure case results in an annual dose of approximately 0.01 mSv (1 mrem) over the next few centuries, eventually rising to approximately 0.02 mSv (2 mrem) at 1000 years. This result is approximately an order of magnitude lower than either the agricultural case or the intrusion case because no crop intake is assumed in the recreational case.

The results of analysis of the agricultural case indicate that the peak annual dose within the 1000-year compliance period is predicted to be less than 0.2 mSv (20 mrem) and to occur at 1000 years after the present time. Results of the analysis of the intrusion case indicate that the peak mean annual dose within the 1000-year compliance period is also expected to be less than 0.2 mSv (20 mrem) and to occur at 1000 years after the present time.

In the agricultural and intrusion cases, it was assumed that a person would site a well or cultivated field at a random location within the 4000 m<sup>2</sup> (1 acre) site. In the unrealistic case that a farmer were to occupy the site and place a home in the most contaminated 200 m<sup>2</sup> (0.05 acre) area on the site, the peak annual dose would be expected to be well below the public dose limit and thus this scenario is not given further consideration in the staff's evaluation.

Regardless of whether the ash is left in place or excavated and removed pursuant to Pennsylvania State law, the NRC staff concludes that the doses for all scenarios meet the NRC's criteria for unrestricted use (*i.e.*, the doses are less

than 25 mrem per year). Therefore, no further remedial action under NRC authority is required. The staff's dose assessment is presented in greater detail in SECY-04-0102, "The Results of the Staff's Evaluation of Potential Doses to the Public from Materials at the Kiski Valley Water Pollution Control Authority site in Leechburg, Pennsylvania."

#### **Proposed Action**

The proposed action is for NRC to take no further regulatory action regarding the KVVWPCA site.

#### **Purpose and Need for the Proposed Action**

The purpose of the proposed action is to allow the KVVWPCA site in Leechburg, Pennsylvania, to be made available for unrestricted use. This can be justified by demonstrating that the site meets the NRC criteria for unrestricted use.

Should the proposed action be approved, under Pennsylvania's Solid Waste Management Act, PADEP could require that the ash in the lagoon be removed and disposed of as solid waste.

NRC is fulfilling its responsibilities under the Atomic Energy Act to make a decision on release of facilities for unrestricted use that ensures protection of public health and safety and the environment.

#### **Alternative to the Proposed Action**

Based on its dose assessment, the NRC staff found the KVVWPCA site to be acceptable for release for unrestricted use. The only alternative to the proposed action would be to make no determination regarding the need for NRC action at the site (*i.e.*, a no-action alternative). This would leave the KVVWPCA site subject to potential unnecessary regulation by NRC. The staff has determined that the site meets the NRC criteria for unrestricted use and that no further action by NRC is necessary. The no-action alternative is not acceptable because KVVWPCA does not plan to conduct any activities that would require NRC oversight.

#### **The Affected Environment and Environmental Impacts**

The site is located in the central portion of the Appalachian Plateau physiographic province. The Allegheny River and its tributaries such as the Kiskiminetas River drain the majority of the region. The KVVWPCA site drains into the Kiskiminetas River.

The ash lagoon occupies approximately one acre of the 36-acre KVVWPCA site. The bottom of the lagoon basin was excavated into the native silty clay of the bench terrace of the

Kiskiminetas River. The lagoon is 2 to 3 meters deep. Land use within the vicinity of the site consists of medium-sized rural residences, small farms, and light industrial areas.

The NRC staff has reviewed the Closure Plan for the KVVWPCA site and a draft Environmental Impact Statement for decommissioning the nearby B&W Shallow Land Disposal Area in Parks Township, Pennsylvania (NUREG-1613). As discussed earlier, the NRC staff has conducted a dose assessment using site-specific data. Based on its review and analyses, the staff has determined that the affected environment and environmental impacts associated with the release for unrestricted use of the KVVWPCA site is bounded by the impacts evaluated by the "Generic Environmental Impact Statement in Support of Rulemaking on Radiological Criteria for License Termination of NRC-Licensed Nuclear Facilities" (NUREG-1496). The staff also finds that the proposed release for unrestricted use of the KVVWPCA site is in compliance with Title 10, Code of Federal Regulations, Part 20.1402, "Radiological Criteria for Unrestricted Use." The proposed action will result in no physical change to the site. Therefore, the NRC expects no significant impact of a nonradiological nature. However, by NRC taking no action, PADEP will have the ability to exercise its authority to require the material to be removed from the site, which will result in physical change to the site. The NRC staff has found no other activities in the area that could result in cumulative impacts.

#### **Agencies and Persons Consulted**

This EA was prepared by the NRC staff. The NRC staff has been in contact with the State of Pennsylvania regarding this issue and has informed the state of its proposal to take no further action at the Kiski Valley site. The State Office of Historical Preservation, the State Fish and Wildlife Service, and the U.S. Fish and Wildlife Service were not contacted because release of the KVVWPCA site for unrestricted use would not affect historical or cultural resources, nor would it affect threatened or endangered species. No other sources were used beyond those referenced in this EA. NRC published this draft EA for public comment and will address comments received in the final EA.

#### **Conclusions**

The NRC staff concludes that the proposed action complies with 10 CFR Part 20. NRC has prepared this EA in support of the proposal to take no further action in regard to the KVVWPCA

site. On the basis of the EA, NRC has concluded that the environmental impacts from the proposed action are expected to be insignificant and has determined that an environmental impact statement for the proposed action is not necessary.

#### List of Preparers

Kenneth Kalman, Project Manager, Division of Waste Management and Environmental Protection.

#### List of References

1. November 7, 2003. Letter from Kenneth Kalman to Robert Kossack, "Nuclear Regulatory Commission Staff Intent to Conduct Dose Assessment of the Kiski Valley Water Pollution Control Authority Site.
2. Kenneth Kalman (2004). *The Results of the Staff's Evaluation of Potential Doses to the Public from Materials at the Kiski Valley Water Pollution Control Authority site in Leechburg, Pennsylvania.* (SECY-04-0102). U.S. Nuclear Regulatory Commission, Office of Nuclear Material Safety and Safeguards, June 22, 2004.
3. Chester Environmental (1994). *Closure Plan for Incinerator Ash Lagoon, Kiski Valley Water Pollution Control Authority, Westmoreland County, Pennsylvania.* Chester Environmental. Pittsburgh, PA, July 1994.
4. Chester Engineers (1997). *Ash Lagoon Closure: Kiski Valley Water Pollution Control Authority.* Chester Engineers, Pittsburgh, PA. February 1998. (ADAMS ML003683061).
5. *Draft Environmental Impact Statement on Decommissioning of the Babcock and Wilcox Shallow Land Disposal Area in Parks Township, Pennsylvania* (NUREG-1613). U.S. Nuclear Regulatory Commission, Office of Nuclear Material Safety and Safeguards, August 1997.
6. *Generic Environmental Impact Statement in Support of Rulemaking on Radiological Criteria for License Termination of NRC-Licensed Nuclear Facilities* (NUREG-1496). U.S. Nuclear Regulatory Commission, Office of Nuclear Regulatory Research, July 1997.

### III. Further Information

Supporting documentation is available for inspection at NRC's Public Electronic Reading Room at <http://www.nrc.gov/reading-rm/ADAMS.html>. A copy of the draft EA can be found at this site using the ADAMS accession number ML042320320. Any questions should be referred to Ken Kalman, Decommissioning Directorate, Division of Waste Management and Environmental Protection, U.S. Nuclear Regulatory Commission, Washington, DC 20555, Mailstop T7-F27, telephone (301) 415-6664, fax (301) 415-5397.

Dated at Rockville Maryland this 13th day of September 2004.

For the U.S. Nuclear Regulatory Commission.

**Daniel M. Gillen,**

*Deputy Director, Decommissioning Directorate, Division of Waste Management and Environmental Protection, Office of Nuclear Material Safety and Safeguards.*

[FR Doc. 04-20989 Filed 9-16-04; 8:45 am]

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### NUCLEAR REGULATORY COMMISSION

[Docket No.: 70-3103]

#### Notice of Availability of Environmental Impact Statement for the Proposed National Enrichment Facility in Lea County, NM, NUREG-1790, Draft Report, and Notice of Public Meeting

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Notice of availability of draft environmental impact statement and notice of public meeting.

**SUMMARY:** Notice is hereby given that the U.S. Nuclear Regulatory Commission (NRC) is issuing a Draft Environmental Impact Statement (DEIS) for the Louisiana Energy Services (LES) license application, dated December 12, 2003, as revised by letters dated February 27, 2004, and July 30, 2004, and docketed on January 30, 2004, for the possession and use of source, byproduct and special nuclear materials at its proposed National Enrichment Facility (NEF) in Lea County, New Mexico.

The DEIS discusses the purpose and need for the proposed LES facility and reasonable alternatives to the proposed action, including the no-action alternative. The DEIS also discusses the environment potentially affected by the LES proposal, presents and compares the potential environmental impacts resulting from the proposed action and its alternatives, and identifies mitigation measures that could eliminate or lessen the potential environmental impacts.

The DEIS is being issued as part of the NRC's decision-making process on whether to issue a license to LES. Based on the preliminary evaluation in the DEIS, the NRC environmental review staff has concluded that the proposed action would have small effects on the physical environment and human communities with the exception of: (1) short-term impacts associated with construction traffic, accidents, and waste management, which would be small to moderate, and (2) beneficial economic impacts of the proposed NEF on the local communities which have been determined to be moderate. The

DEIS is a preliminary analysis of the environmental impacts of the proposed action and its alternatives. The Final EIS and any decision documentation regarding the proposed action will not be issued until public comments on the DEIS have been received and evaluated. Notice of the availability of the Final EIS will be published in the **Federal Register**.

**DATES:** The NRC is offering an opportunity for public review and comment on the DEIS in accordance with applicable regulations, including NRC requirements in 10 CFR 51.73, 51.74 and 51.117. The comment period on this DEIS will be 45 days from the date the U.S. Environmental Protection Agency publishes the notice of availability in the **Federal Register**. Written comments submitted by mail should be postmarked by that date to ensure consideration. Comments mailed after that date will be considered to the extent practical. Comments will also be accepted by electronic or facsimile submission.

**ADDRESSES:** Members of the public are invited and encouraged to submit comments to the Chief, Rules Review and Directives Branch, Mail Stop T6-D59, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. Please note Docket No. 70-3103 when submitting comments. Comments will also be accepted by e-mail at [nrcprep@nrc.gov](mailto:nrcprep@nrc.gov) or by facsimile to (301) 415-5397, Attention: Anna Bradford.

**Public Meetings:** The NRC staff will hold a public meeting to present an overview of the DEIS and to accept oral and written public comments. Prior to the public meeting, the NRC staff will be available to informally discuss the proposed LES project and answer questions in an "open house" format. This "open house" format provides for one-on-one discussions with the NRC staff involved with the preparation of the LES Draft EIS. The meeting date, time and location are listed below:

Thursday, October 14, 2004. Eunice Community Center, 1115 Avenue I, Eunice, New Mexico.

**Open House:** 6 p.m. to 7 p.m.,

**Public Meeting:** 7 p.m. to 10 p.m.

The meeting will be transcribed and will include: (1) A presentation summarizing the contents of the DEIS and (2) an opportunity for interested government agencies, organizations, and individuals to provide comments on the DEIS. Persons wishing to provide oral comments can register in advance by contacting Ms. Anna Bradford at (301) 415-5228 by October 8, 2004, or at the public meeting. Individual oral comments may have to be limited by the