Preliminary Site-Specific Results of the License Renewal Environmental Review For Davis-Besse Nuclear Power Station



United States Nuclear Regulatory Commission

Protecting People and the Environment

March 25, 2014

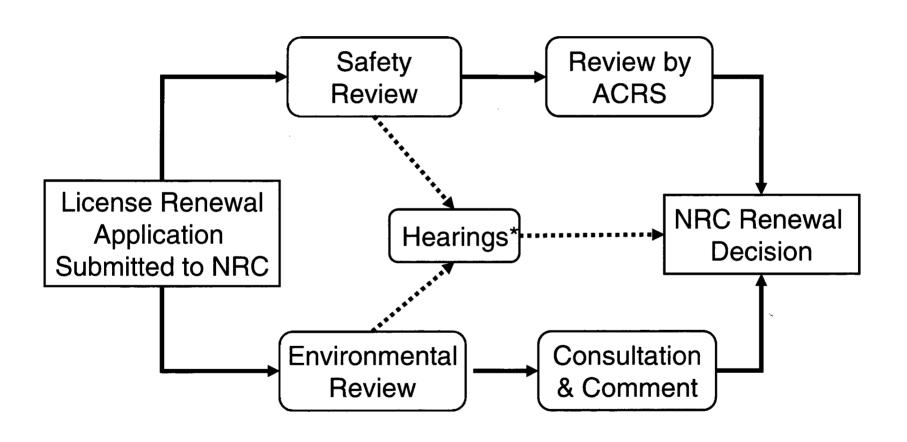
Purpose of Meeting

- NRC presentation
 - > NRC's regulatory role
 - > Summary of environmental review
 - Upcoming milestones and how to submit comments outside this meeting
- Your comments

NRC's Regulatory Oversight

- NRC regulates commercial use of nuclear materials including nuclear power plants
- NRC's mission:
 - ➤ Protect public health and safety
 - > Promote common defense and security
 - > Protect the environment

License Renewal Process



^{*} If a Request for Hearing is Granted

Environmental Review

- Generic Environmental Impact Statement (GEIS) addresses issues common to all plants
- Supplemental Environmental Impact
 Statement (SEIS) addresses site-specific issues for Davis-Besse license renewal
- Review proposed action (license renewal) and alternatives

How Impacts are Quantified

- NRC-defined impact levels:
 - > **SMALL** Effects are not detectable or are so minor that they will neither destabilize nor noticeably alter any important attribute of the resource.
 - ➤ **MODERATE** Effects are sufficient to alter noticeably, but not to destabilize, important attributes of the resource.
 - ➤ **LARGE** Effects are clearly noticeable and are sufficient to destabilize important attributes of the resource.

Cumulative Impacts

- Overall impacts to environment including past, present, and reasonable foreseeable future actions
- Preliminary findings
 - LARGE cumulative impacts on aquatic resources
 - SMALL to MODERATE cumulative impacts on surface water resources
 - MODERATE cumulative impacts on terrestrial resources and human health-microbiological organisms
 - SMALL cumulative impacts in all other areas

Site-Specific Environmental Review of Davis-Besse License Renewal

Reviewing Areas	Impact	DSEIS Section
Land Use	SMALL	4.1
Air Quality	SMALL	4.2
Geological Environment	SMALL	4.3
Surface Water Resources	SMALL	4.4
Groundwater Resources	SMALL	4.5
Aquatic Resources	SMALL	4.6
Terrestrial Resources	SMALL	4.7
Human Health	SMALL	4.9
Socioeconomics	SMALL	4.10
Historic and Archaeological Resources	SMALL to MODERATE	4.13

Federally Protected Species and Habitats

Common Name	Impact	Suitable Habitat Present
Piping Plover (<i>Charadrius</i> melodus)	No effect	Yes
Indiana Bat (<i>Myotis sodalis</i>)	May affect, but is unlikely to adversely affect	Yes
Eastern prairie fringed orchid (<i>Platanthera leucophaea</i>)	No effect	Yes
Lakeside daisy (<i>Hymenoxy</i> acaulis var. glabra)	No effect	No

Conclusions presented are consistent with effect determinations under the

Endangered Species Act.

Alternatives

- Alternative energy sources analyzed (power replacement)
 - ➤ Natural-gas-fired combined-cycle
 - > Supercritical pulverized coal
 - ➤ Combination alternative (wind, solar, naturalgas-fired combined-cycle, and compressed air energy storage)
- No action alternative

Preliminary Conclusion

The NRC's preliminary recommendation is that the adverse environmental impacts of license renewal for Davis-Besse Nuclear Power Station are not great enough to deny the option of license renewal for energy-planning decision makers

Waste Confidence Decision

- NRC Waste Confidence Decision and Rule (WCD)
 addresses management of spent fuel after the renewal term.
- Consistent with the Commission direction, Davis-Besse renewed license will not be issued until the issues related to waste confidence are appropriately addressed.
- WCD Environmental Impact Statement is being developed by the WCD directorate, to be available in 2014.
- http://www.nrc.gov/waste/spent-fuel-storage/wcd.html

Environmental Review Milestones

Application Received
Notice of Intent
Scoping Public Meeting
Scoping Period Ended
Draft SEIS Published
Draft SEIS Public Meeting
Draft SEIS Comments Due
Final SEIS

August 30, 2010 October 20, 2010 November 4, 2010 December 27, 2010 February 26, 2014 March 25, 2014 April 21, 2014 September 2014

Additional Information

Environmental Review:

Safety Review:

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- The draft SEIS can be viewed at:
 - Ida Rupp Public Library, 310 Madison Street, Port Clinton, OH 43452
 - ➤ Toledo-Lucas County Public Library, 325 Michigan Street, Toledo, OH, 43604
- NRC's Web site (www.nrc.gov):
 - http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1437/

Submitting Comments After the Meeting

> By mail: Chief, Rules, Announcements, and

Directives Branch (RADB)

Division of Administrative Services, ADM

Mailstop 3WFN-06-A44MP,

U.S. Nuclear Regulatory Commission

Washington, D.C. 20555-0001

➤ In person: 11545 Rockville Pike

Rockville, Maryland

➤ Internet: <u>www.regulations.gov</u>, docket ID: nrc-2010-0298

Comments due by April 21, 2014