

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

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March 25, 2014

# Purpose of Meeting

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

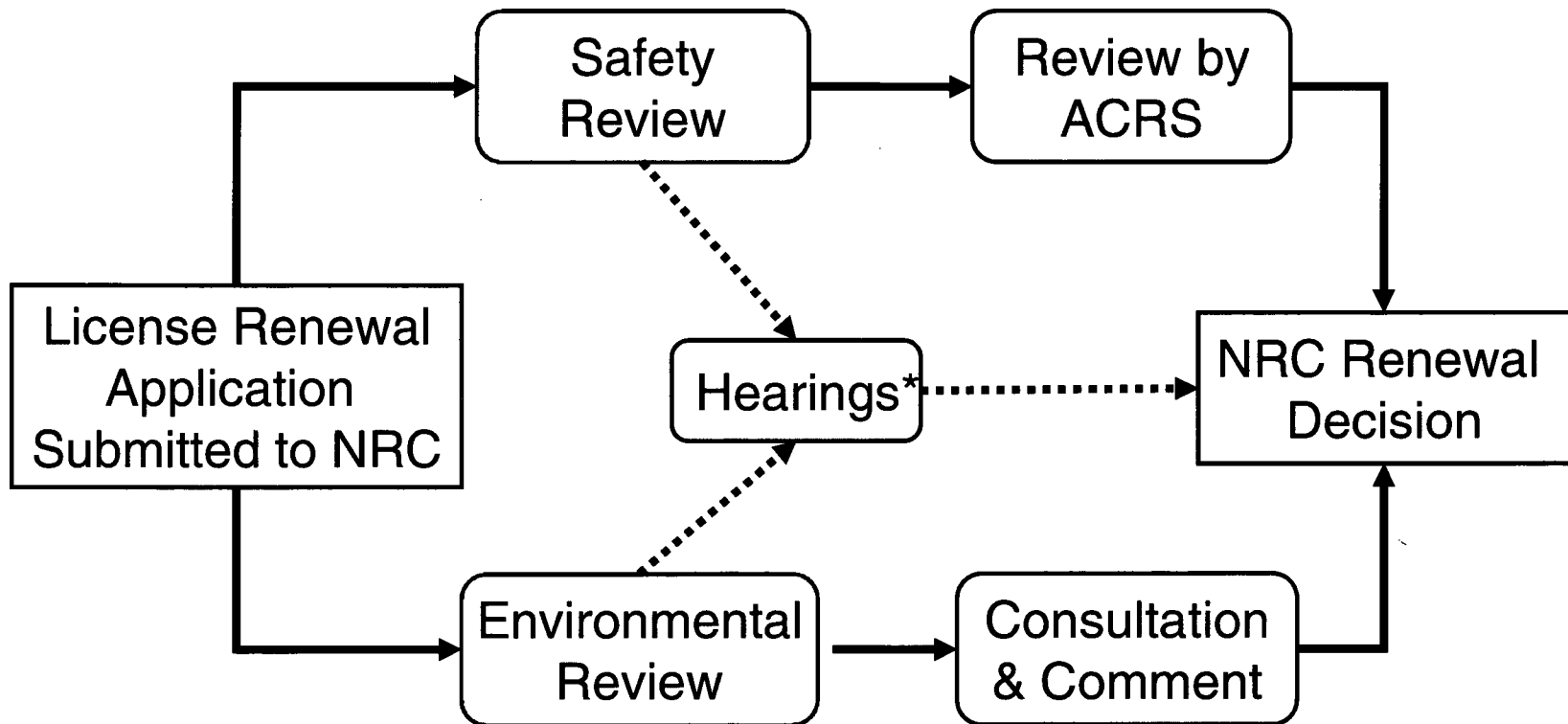
# NRC's Regulatory Oversight

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- 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

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\* If a Request for Hearing is Granted

# Environmental Review

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- 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

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- 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

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- 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 melodus</i> )	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>Hymenoxys acaulis</i> var. <i>glabra</i> )	No effect	No
Conclusions presented are consistent with effect determinations under the Endangered Species Act.		

# Alternatives

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

# Preliminary Conclusion

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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

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- 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

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Application Received	August 30, 2010
Notice of Intent	October 20, 2010
Scoping Public Meeting	November 4, 2010
Scoping Period Ended	December 27, 2010
Draft SEIS Published	February 26, 2014
Draft SEIS Public Meeting	March 25, 2014
Draft SEIS Comments Due	April 21, 2014
Final SEIS	September 2014

# Additional Information

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- Environmental Review:  
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**(800) 368-5642, Ext. 8517**  
**elaine.keegan@nrc.gov**
- Safety Review:  
**Juan Uribe**  
**(800)-368-5642 Ext. 3809**  
**juan.uribe@nrc.gov**
- 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)):
  - <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1437/>

# Submitting Comments After the Meeting

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- 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: [www.regulations.gov](http://www.regulations.gov), docket ID: nrc-2010-0298

**Comments due by April 21, 2014**