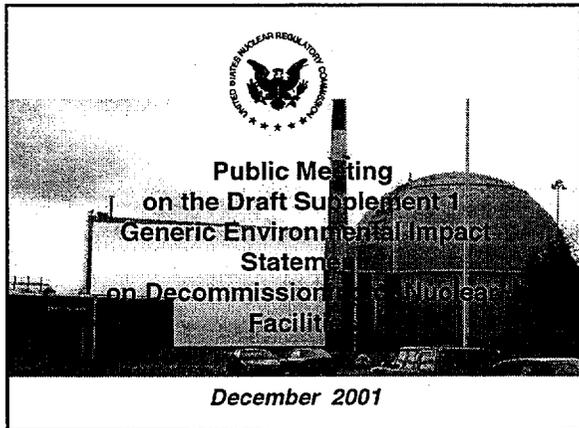


ATTACHMENT 5
PRESENTATION SLIDES



Who is the Nuclear Regulatory Commission?

- Independent agency
- Experienced regulator
- Mission - protect public health safety and environment
- Decisions made by 5 Commissioners
 - Chosen by the President for 5 yr term
 - Chairman designated by the President

Purpose of this Public Meeting

- Discuss process for developing Supplement 1 to NUREG-0586
- Discuss NEPA process
- Explain what Supplement 1 is; how and when it is used
- Discuss conclusions from Supplement 1
- INVITE PUBLIC COMMENT on this activity

What is NEPA?

- Process for informed Federal actions
- Informs and involves the public
- Considers significant environmental impacts
- Considers alternatives and their impacts
- Requires candid discussion and evaluation of impacts and mitigation

What does NEPA require?

- Environmental Impact Statements (EISs) are required for major Federal actions.
- Supplements to draft or final EISs are required when there are significant new circumstances or information relevant to the environmental concerns
- Generic EISs are allowed if the impacts are similar and for a number of similar facilities

What does NEPA require?

- Environmental Impact Statements (EISs) are required for major Federal actions.
- Supplements to draft or final EISs are required when there are significant new circumstances or information relevant to the environmental concerns
- Generic EISs are allowed if the impacts are similar and for a number of similar facilities

**The NEPA Process
for Supplement 1**

- Notice of Intent - March 14, 2000
- Scoping Process - March 14 - July 15, 2000
- Evaluation of environmental impacts, alternatives, mitigation measures - through March 2001
- Draft Supplement issued for public comment - November 2001
- Public comment period - until December 31, 2001
- Final Supplement issued - mid 2002

**The NEPA Process
for Supplement 1**

- Notice of Intent - March 14, 2000
- Scoping Process - March 14 - July 15, 2000
- Evaluation of environmental impacts; alternatives, mitigation measures - through March 2001
- Draft Supplement issued for public comment - November 2001
- Public comment period - until December 31, 2001
- Final Supplement issued - mid 2002

**What is Supplement 1
to NUREG-0586?**

Identifies environmental impacts

- "generic" for all nuclear reactor facilities
- "site-specific" issues for each facility
- from different reactor types, decommissioning options, locations, etc.

Only addresses permanently shutdown power reactors

Why is the NUREG-0586 being Supplemented?

- Original GEIS is over 13 years old
- New regulations for decommissioning were published in 1996
 - examples - PSDAR, LTP and Environmental Justice
- Increased U.S. decommissioning experience
 - 21 shutdown facilities in various stages of decommissioning
- New Issues
 - rubbleization
 - partial site release
 - variations on entombment

10

Why is the NUREG-0586 being Supplemented?

- Original GEIS is over 13 years old
- New regulations for decommissioning were published in 1996
 - examples - PSDAR, LTP and Environmental Justice
- Increased U.S. decommissioning experience
 - 21 shutdown facilities in various stages of decommissioning
- New Issues
 - rubbleization
 - partial site release
 - variations on entombment

11

How will Supplement 1 be used?

The Supplement will be used

- to focus the analysis of environmental impacts - site-specific impacts versus generically-evaluated impacts
- to determine if additional rulemaking is required
- to serve as a basis for additional rulemaking

12

**When will Supplement 1
be used?**

Used through the entire decommissioning process

- Regulations require that no activities be performed during decommissioning that "would result in significant environmental impacts not previously reviewed"
- Hard look taken at the PSDAR stage and the License Termination Plan stage

13

Decommissioning is defined as:

"The process of safely removing a facility from service followed by reducing residual radioactivity to a level that permits termination of the NRC license"

14

What does Generic Mean?

Environmental impacts have been determined to apply either to all plants, or all plants with certain characteristics (i.e. size, location, etc.).

15

Creating Supplement 1 to NUREG-0586

- How do we approach developing a supplement to NUREG-0586
- How did we determine scope?
- How should impacts be determined
- Which impacts are generic? Which are site-specific?

16

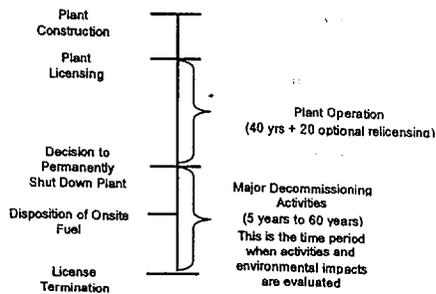
Creating Supplement 1 to NUREG-0586

Overview of this presentation

1. Determining Scope
2. Explanation of our process for identifying impacts
3. Sources of information
4. Table of findings (Table 6.1 in Draft GEIS)

17

Overview - Life-cycle of Plants



18

Scope of Supplement 1

- Based on the 1988 GEIS
- Based on Scoping Meetings
- Based on Definition of Decommissioning
- Requests by the Commission
- Outside the purview of the NRC or considered elsewhere in NRC's regulations

19

Process for Identifying Impacts

Activities + environmental issues = Impacts

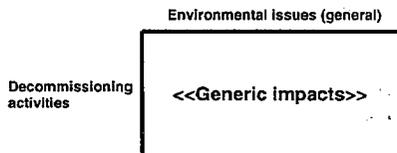
Activities include removing fuel, storage, chemical decontamination of primary loop, system dismantlement, transportation, etc.

Environmental issues include water use, water quality, air quality, radiological concerns, cultural impacts, etc.

20

Process for Identifying Impacts Tier 1

“Which activities and environmental issues are common to all plants?”



21

**Process for Identifying Impacts -
Tier 2**

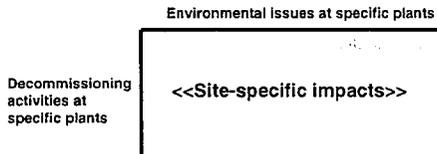
How do we account for variability
among plants?
(Table E-4 in Draft GEIS)

- Features that may vary among plants include:
- type and size of plant
 - type of cooling system
 - decommissioning option chosen
 - cultural resources
 - proximity to transportation
 - others

22

**Process for Identifying Impacts
Tier 2**

“Which activities and environmental
issues are common to **specific plants**?”



23

**Process for Identifying Impacts
Degree of Environmental Impacts**

- | | |
|------------------------|------------------------------|
| Generic Impacts | Site-specific Impacts |
| - Small | - Determined site by site |
| - Moderate | |
| - Large | |

24

Process for Identifying Impacts Summary (Fig. E-1, Draft GEIS)

1. **Scope** - Identify general decommissioning activities and environmental issues

2. **Tier 1** - Match activities and issues

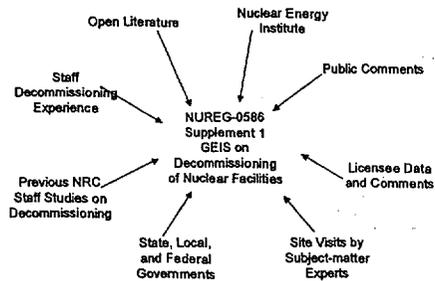
3. **Tier 2** - Identify plant variabilities

4. Match impacts and plant variability

5. **Outcome** - Create a Generic EIS:
 • Generic vs. site-specific
 • Small, moderate, or large impacts

25

Information and Sources



26

Findings

Generic Issues and Impacts

Generic Issue	Impact
Water Use and Quality	SMALL
Air Quality	SMALL
Ecology	SMALL
Human Health	SMALL
Transportation	SMALL
Socioeconomics	SMALL MODERATE or LARGE
Postulated Accidents	SMALL MODERATE or LARGE
Aesthetics and Noise	SMALL
Land Use	SMALL

(See Table 6-1,
Draft GEIS)

27
