

Appendix H

Summary of Environmental Impacts from Decommissioning Activities

Appendix H

Summary of Environmental Impacts from Decommissioning Activities

1 This appendix provides two tables that summarize findings from the analysis of the environmen-
2 tal impacts from decommissioning of permanently shutdown nuclear reactors. Table H-1 shows
3 those issues and decommissioning activities that have no environmental impacts. Licensees
4 may conduct these activities without further consideration of the potential environmental
5 impacts. Table H-2 presents each environmental issue that was evaluated, provides the
6 activities that were determined potentially to have environmental impacts, and then states
7 whether the impacts related to the issue's associated activities were determined to be generic
8 or site-specific for all variables. The significance level is identified and a short discussion of the
9 finding is provided on the right-hand side of the table. Section 4.1 defines the significance
10 levels and explains the distinction between generic or site-specific issues.

Appendix H

Table H-1. Issues and Activities with No Environmental Impacts

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Issue	Activity
Onsite/Offsite Land Use	Remove fuel Organizational changes Stabilization Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Storage preparation activities for SAFSTOR Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 System dismantlement Entombment Transportation License termination activities
Water Use	Remove fuel <ul style="list-style-type: none"> • Drain primary system • Process liquid Organizational changes <ul style="list-style-type: none"> • Adjust site training • Changes to licensing basis - site-specific Stabilization Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Large component removal <ul style="list-style-type: none"> • Steam generator and other large components intact or cut up Storage preparation activities for SAFSTOR Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 <ul style="list-style-type: none"> • Chemical decontamination (surface/specific components) • Decontaminate piping inside walls • Remove contaminated soil from specific areas • Do preventive and corrective maintenance on SSCs • Maintain the security system • Maintain effluent and environmental monitoring programs

Table H-1. (contd)

3	Issue	Activity
4	Water Use (contd)	System Dismantlement Entombment <ul style="list-style-type: none"> • Install engineered barriers • Disconnect operational systems (e.g. electrical and fire protection) • Remove all radioactive material that is outside of containment • Place material inside containment LLW packaging and storage Transportation License termination activities
5	Water Quality	Organizational changes Stabilization <ul style="list-style-type: none"> • Isolate SSCs that are no longer required • Rewire site to eliminate unneeded electrical circuits Post-shutdown surveys Create of nuclear island Chemical decontamination of primary loop Large Component Removal Storage preparation activities for SAFSTOR Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 <ul style="list-style-type: none"> • Chemical decontamination (surface/specific components) • Decontamination of piping inside walls • Remove contaminated soil from specific areas • Do preventive and corrective maintenance on SSCs • Maintain the security system • Maintain effluent and environmental monitoring programs System Dismantlement Structure Dismantlement <ul style="list-style-type: none"> • Removal of radioactive structures Entombment LLW packaging storage Transportation License termination activities

Table H-1. (contd)

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Issue	Activity
Air Quality	Remove fuel Organizational changes <ul style="list-style-type: none"> • Reduce staff • Adjust site training • Change licensing basis - site-specific Stabilization Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Large component removal Storage preparation activities for SAFSTOR <ul style="list-style-type: none"> • De-energize systems, put in monitors where they are needed • Perform a radiological assessment Storage (SAFSTOR) <ul style="list-style-type: none"> • Monitor systems and radiation levels etc. • Do preventive and corrective maintenance on SSCs • Maintain the security system Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 <ul style="list-style-type: none"> • Chemical decontamination (surface/specific components) • Decontamination of piping inside walls • High-pressure water sprays of surface • Remove contaminated soil from specific areas • Do preventive and corrective maintenance on SSCs • Maintain the security system System dismantlement Entombment <ul style="list-style-type: none"> • Disconnect operational systems (e.g., electrical and fire protection) • Remove all radioactive material that is outside of containment • Place material inside containment LLW packaging storage License termination activities

Table H-1. (contd)

	Issue	Activity
4	Aquatic Ecology	Remove fuel Organizational changes Stabilization Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Large Component Removal Storage preparation activities for SAFSTOR Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 System dismantlement Structure Dismantlement <ul style="list-style-type: none"> • Rubblization Entombment LLW packaging storage Transportation License termination activities
5	Terrestrial Ecology	Remove fuel Organizational changes Stabilization <ul style="list-style-type: none"> • Drain and flush system • Isolate SSCs that are no longer required Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Storage preparation activities for SAFSTOR Storage (SAFSTOR)

Table H-1. (contd)

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Issue	Activity
Terrestrial Ecology (contd)	Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 <ul style="list-style-type: none"> • Chemical decontamination (surface/specific components) • Decontamination of piping inside walls • High-pressure water sprays of surface • Do preventive and corrective maintenance on SSCs • Maintain the security system • Maintain effluent and environmental monitoring programs System dismantlement Structure dismantlement Entombment LLW packaging storage Transportation License termination activities
Threatened and Endangered Species	Remove fuel Organizational changes Stabilization <ul style="list-style-type: none"> • Drain and flush system • Isolate SSCs that are no longer required Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Storage preparation activities for SAFSTOR Storage (SAFSTOR)

Table H-1. (contd)

3	Issue	Activity
4 5 6	Threatened and Endangered Species (contd)	Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 <ul style="list-style-type: none"> • Chemical decontamination (surface/specific components) • Decontamination of piping inside walls • High-pressure water sprays of surface • Do preventive and corrective maintenance on SSCs • Maintain the security system • Maintain effluent and environmental monitoring programs System dismantlement Structure dismantlement Entombment LLW packaging storage Transportation License termination activities
7	Radiological	Remove fuel <ul style="list-style-type: none"> • Process liquid Organizational changes <ul style="list-style-type: none"> • Changes to licensing basis - site-specific Create nuclear island <ul style="list-style-type: none"> • Reduce the security area to that around the fuel • Change security function • Install or modify chemistry controls Storage (SAFSTOR) <ul style="list-style-type: none"> • Maintain the security system • Maintain effluent and environmental monitoring programs Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 <ul style="list-style-type: none"> • Maintain the security system • Maintain effluent and environmental monitoring programs Entombment <ul style="list-style-type: none"> • Entomb facility in concrete Transportation <ul style="list-style-type: none"> • Equipment onto site • Backfill trucked into site • Nonradioactive waste

Table H-1. (contd)

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Issue	Activity
Radiological (contd)	License termination activities <ul style="list-style-type: none"> • Partial site release
Radiological Accidents	Organizational changes Stabilization <ul style="list-style-type: none"> • Isolate SSCs that are no longer required • Rewire site to eliminate unneeded electrical circuits Post-shutdown surveys Create nuclear island Storage preparation activities for SAFSTOR Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 <ul style="list-style-type: none"> • Remove contaminated soil from specific areas • Do preventive and corrective maintenance on SSCs • Maintain the security system • Maintain effluent and environmental monitoring programs Structure Dismantlement <ul style="list-style-type: none"> • Rubblization Entombment <ul style="list-style-type: none"> • Install engineered barriers • Disconnect operational systems (e.g. electrical and fire protection) • Remove all radioactive material that is outside of containment • Place material inside containment • Entomb facility in concrete LLW packaging storage Transportation <ul style="list-style-type: none"> • Equipment into site • Backfill trucked into site • Nonradioactive waste License termination activities

Table H-1. (contd)

Issue	Activity
Occupational Issues	Remove fuel Organizational changes Stabilization <ul style="list-style-type: none"> • Drain and flush system • Isolate SSCs that are no longer required Post-shutdown surveys Create nuclear island <ul style="list-style-type: none"> • Reduce the security area to that around the fuel • Change security function • Install or modify chemistry controls Storage preparation activities for SAFSTOR <ul style="list-style-type: none"> • Establish a reactor coolant system vent pathway • Establish containment vent pathway • Perform a radiological assessment Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 <ul style="list-style-type: none"> • Chemical decontamination (surface/specific components) • High-pressure water sprays of surface • Do preventive and corrective maintenance on SSCs • Maintain the security system • Maintain effluent and environmental monitoring programs System dismantlement LLW packaging storage Transportation License termination activities
Cost	Remove fuel <ul style="list-style-type: none"> • Transfer fuel to spent fuel pool Create nuclear island <ul style="list-style-type: none"> • Install or modify chemistry controls Storage (SAFSTOR) <ul style="list-style-type: none"> • Maintain the security system • Maintain effluent and environmental monitoring programs License termination activities <ul style="list-style-type: none"> • Partial site release

Table H-1. (contd)

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Issue	Activity
Socioeconomic	Remove fuel Organizational changes <ul style="list-style-type: none"> • Adjust site training • Change licensing basis - site-specific Stabilization Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Large component removal Storage preparation activities for SAFSTOR Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 System dismantlement Structure dismantlement Entombment LLW packaging storage Transportation License termination activities
Environmental Justice	Remove fuel Organizational changes <ul style="list-style-type: none"> • Adjust site training • Change licensing basis - site-specific Stabilization Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Large components removal Storage preparation activities for SAFSTOR Storage (SAFSTOR)

Table H-1. (contd)

Issue	Activity
Environmental Justice (contd)	Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 System dismantlement Structure dismantlement Entombment LLW packaging storage Transportation <ul style="list-style-type: none"> • Move equipment onto site • Backfill trucked into site • Nonradioactive waste License termination activities
Cultural Impacts	Remove fuel Organizational changes Stabilization <ul style="list-style-type: none"> • Drain and flush system • Isolate SSCs that are no longer required Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Large components removal Storage preparation activities for SAFSTOR Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 <ul style="list-style-type: none"> • Chemical decontamination (surface/specific components) • Decontamination of piping inside walls • High pressure water spray of surface • Do preventative and corrective maintenance on SSCs • Maintain security system • Maintain effluent and environmental monitoring programs System dismantlement Structure dismantlement Entombment LLW packaging storage Transportation License termination activities

Table H-1. (contd)

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Issue	Activity
Aesthetic Issues	Remove fuel Organizational changes Stabilization Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Large component removal Storage preparation activities for SAFSTOR Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 System dismantlement Entombment <ul style="list-style-type: none"> • Disconnect operational systems (e.g. electrical and fire protection) • Remove all radioactive material that is outside of containment • Place material inside containment • Lower ceiling (optional) LLW packaging storage Transportation License termination activities
Noise	Remove fuel Organizational changes Stabilization Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Large components removal Storage preparation activities for SAFSTOR Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 System dismantlement Entombment <ul style="list-style-type: none"> • Disconnect operational systems (e.g. electrical and fire protection) • Place material inside containment • Lower ceiling (optional)

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Table H-1. (contd)

Issue	Activity
Noise (contd)	LLW packaging storage Transportation License termination activities
Irretrievable Resources	Remove fuel Organizational changes Stabilization Post-shutdown surveys Create nuclear island Chemical decontamination of primary loop Large components removal Storage preparation activities for SAFSTOR Storage (SAFSTOR) Decontamination and Dismantlement phases of DECON, SAFSTOR, and ENTOMB1 Entombment Transportation <ul style="list-style-type: none"> • Equipment into site License termination activities

Table H-2. Summary of Environmental Impacts

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Onsite/Offsite Land Use (4.3.1)	
Activities that could have Onsite/Offsite Land Use impacts	
Large Component Removal	
• Remove reactor vessel	
• Remove steam generator or other large components	
Structure dismantlement (Laydown yards)	
• Rubblization	
• Removal of structures necessary for plant operation	
LLW packaging and storage (additional storage facility(ies))	
Generic	
Yes - for all activities and reactor types	
Impact and Summary of Findings	
• Onsite land use activities - SMALL	
• Offsite land use activities - SMALL	
• Offsite activities that require major transportation upgrades - MODERATE or LARGE	

Table H-2. (contd)

Water Use (4.3.2)

Activities that could have Water Use impacts

Remove Fuel

- Transfer fuel to spent fuel pool

Organizational changes (affects potable water use)

- Reduce staff
- Employ contractor staff or other additional staff

Large Component Removal

- Remove reactor vessel

Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1

- High-pressure water spray

Structure dismantlement (dust control)

- Rubblization
- Remove structures necessary for plant operation

Entombment

- Lower containment ceiling (dust control)
 - Entomb facility in concrete
-

Generic

Yes - for all activities and reactor types

Impact and Summary of Findings

All activities related to water use that are identified in this Supplement - SMALL

The amount of water used during decommissioning is much less than the amount of water used during operations except for possible short periods of time when potable water use may temporarily increase with staffing levels.

1 **Table H-2. (contd)**

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4 **Water Quality (4.3.3)**

5 **Activities that could impact the Water Quality**

6 Remove Fuel

- 7 • Transfer fuel to spent fuel pool
8 • Drain primary system
9 • Process liquid

10 Stabilization

- 11 • Drain and flush system

12 Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1

- 13 • High-pressure water spray

14 Structure dismantlement (pH concerns)

- 15 • Rubblization

16 **Generic**

17 Yes - for all activities and reactor types

18 **Impact and Summary of Findings**

19 All activities related to water quality (surface and groundwater) that are identified in this
20 Supplement - SMALL

21
22 The releases during decommissioning are within the NPDES guidelines.
23

Table H-2. (contd)

Air Quality (4.3.4)

Activities that could impact Air Quality

Organizational changes (additional worker vehicle traffic)

- Employ contractor staff or other additional staff

Preparation for Storage (SAFSTOR)

- Reactor coolant system ventilation pathways
- Containment ventilation pathways

Storage (SAFSTOR)

- Maintain effluent and environmental monitoring programs

Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1

- Maintain effluent and environmental monitoring programs

Structural dismantlement (dust control)

- Rubblization
- Remove structures necessary for plant operation

Entombment

- Install engineered barriers (dust control)
- Lower containment ceiling (dust control)
- Entomb facility in concrete (vehicle traffic)

Transportation

- Large components
 - LLW
 - Equipment into the site
 - Backfill trucked into site
 - Nonradioactive waste
-

Generic

Yes - for all activities and reactor types

Impact and Summary of Findings

All activities related to water use that are identified in this Supplement - SMALL

Any fugitive dust from decommissioning activities are temporary and can be controlled by mitigative measures. Air quality impacts from workers' vehicles and for movement of materials to and from the site are expected to be negligible.

Table H-2. (contd)

Aquatic Ecology (4.3.5)

Activities that could impact the Aquatic Ecology

Structure dismantlement

- Remove structures that are necessary for plant operation (intake structure)
-

Generic

Yes - for most activities and reactor types

No - Requires site-specific analysis if the activities are outside the boundaries of previously disturbed areas and there is no current ecological assessment available.

Impact and Summary of Findings

Activities within the boundaries of the previously disturbed areas - SMALL

Activities outside the boundaries of the previously disturbed areas with a current ecological assessment available - site-specific

Table H-2. (contd)

Terrestrial Ecology (4.3.6)

Activities that could impact Terrestrial Ecology

Stabilization

- Rewiring of site to eliminate unneeded electrical circuits (includes repowering from the outside)

Large Component Removal

- Remove reactor vessel
- Remove steam generator and other large components

Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1

- Remove contaminated soil from specific areas
-

Generic

Yes - for most activities and reactor types

No - Requires a site-specific analysis if the activities are outside the boundaries of previously disturbed areas and there is no current ecological assessment available.

Impact and Summary of Findings

Activities within the boundaries of the previously disturbed areas - SMALL

Activities outside the boundaries of the previously disturbed areas with a current ecological assessment available - site-specific

1 **Table H-2. (contd)**

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4 **Threatened and Endangered Species (4.3.7)**

5 **Activities that could impact Threatened and Endangered Species**

6 Stabilization

- 7 • Rewiring of site to eliminate unneeded electrical circuits (includes repowering from the
8 outside)

9 Large component removal

- 10 • Remove reactor vessel
11 • Remove steam generator and other large components

12 Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1

- 13 • Remove contaminated soil

14 **Generic**

15 No - Requires a site-specific analysis and continued monitoring of site activities for new and
16 significant information about the presence of threatened and endangered species.

17 **Impact and Summary of Findings**

18 A site-specific analysis is required. The appropriate Federal agency (either U.S. Fish and
19 Wildlife Service or the National Marine Fisheries Service) must be consulted about the
20 presence of threatened or endangered species.

Table H-2. (contd)

Radiological (4.3.8)

Activities that could have Radiological impacts

Remove Fuel

- Transfer fuel to spent fuel pool
- Drain primary system

Organizational changes

- Reduce staff
- Employ contractor or additional staff
- Adjust site training

Stabilization

- Drain and flush system
- Isolate SSCs
- Rewire site (cold/dark) or repower

Post-shutdown surveys

- Baseline surveys
- Continual surveys

Create nuclear island

- Install electrical power to SFP
- Move old or install new security-related power

Chemical decontamination of primary loop

- Cutting, chemicals in and out, cleanup/DECON

Large component removal

- Remove reactor vessel
- Remove steam generator and other components

SAFSTOR preparation

- Reactor coolant vent pathway
- Containment vent pathway
- De-energizing of systems
- Radiological assessment

SAFSTOR

- Monitor systems and radiation levels
 - Preventive and corrective measures on SSCs
-

Table H-2. (contd)

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3	Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1
4	• Chemical decontamination
5	• Decontaminate pipes in walls
6	• High-pressure water sprays
7	• Remove contaminated soil
8	• Preventive and corrective maintenance on SSCs
9	System Dismantlement
10	• Cut out radioactive piping
11	• Remove tanks and other components
12	Entombment
13	• Install engineered barriers
14	• Disconnect operational systems
15	• Remove radioactive material from outside of containment
16	• Place material inside containment
17	• Lower containment ceiling
18	Transportation
19	• Large components
20	• LLW
21	License Termination Activities
22	• Final radiation survey
23	Generic
24	Yes - for all activities and reactor types
25	Impact and Summary of Findings
26	Activities resulting in occupational doses to workers - SMALL
27	Activities resulting in dose to the public - SMALL
28	
29	

Table H-2. (contd)

Radiological Accidents (4.3.9)

Activities that could impact Radiological Accidents

Remove Fuel

- Transfer fuel to SFP
- Maintain SFP
- Drain primary system
- Process liquid

Stabilization

- Drain and flush system

Chemical decontamination of primary loop

- Cutting, chemicals in and out, cleanup/DECON

Large component removal

- Remove reactor vessel
- Remove steam generator and other large components

Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1

- Chemical decontamination
- Decontamination inside pipe walls
- High-pressure water sprays

System dismantlement

- Cut out radioactive pipes
- Remove tanks

Structure Dismantlement

- Remove structures necessary for plant operations

Entombment

- Lower containment ceiling

LLW packaging and storage

Transportation

- Large components
 - LLW
-

Generic

Yes - for all activities and reactor types

Impact and Summary of Findings

Activities resulting in accidents with offsite dose consequences - SMALL, MODERATE or LARGE depending on the type of accident, the timing of the accident (in relationship to when the reactor last operated) and the activity that caused the accident.

Table H-2. (contd)

Occupational Issues (4.3.10)	
Activities that could have Occupational impacts	
6	Stabilization
7	• Rewire site from outside
8	Create nuclear island
9	• Install electrical supply
10	• Move old or install new security-related power
11	Chemical decontamination of the primary loop
12	• Cutting, chemicals in and out, cleanup/DECON
13	Large component removal
14	• Remove reactor vessel
15	• Remove steam generator and other large components
16	SAFSTOR preparation
17	• De-energize systems
18	Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1
19	• Decontaminate piping inside walls
20	• Remove contaminated soil
21	Structure Dismantlement
22	• Rubblization
23	• Remove structures necessary for plant operation
24	Entombment
25	• Install engineered barriers
26	• Disconnect operational systems
27	• Remove radioactive material outside containment
28	• Place material inside containment
29	• Lower containment ceilings
30	• Entomb facility in concrete
Generic	
Yes - for all activities and reactor types	
Impact and Summary of Findings	
34	All activities related to occupational noise, temperature, ergonomic, and biological hazards if
35	proper ES&H procedures are followed - SMALL
36	
37	Activities including physical injuries from construction or demolition activities, electrical shock,
38	and accidental falling and chemical hazards - MODERATE

Table H-2. (contd)

Socioeconomics (4.3.12)

Activities that could impact Socioeconomics

Organizational changes

- Reduce staff
 - Employ contractor or other additional staff
-

Generic

Yes - for all activities and reactor types

Impact and Summary of Findings

Population change <3% - SMALL

3% < Population change <5% - MODERATE

>5% Population change - LARGE

Annual tax revenue loss <10% - SMALL

10% < Annual tax revenue loss <20% - MODERATE

Annual tax revenue loss >20% - LARGE

Table H-2. (contd)

Environmental Justice (4.3.13)

Activities that could impact Environmental Justice

Organizational changes

- Reduce staff
- Employ contractor or other additional staff

Transportation

- Large components
 - LLW
-

Generic

No - Requires a site-specific analysis. The impacts depend on the location of and circumstances of minority and low-income populations in the vicinity of the plant.

Impact and Summary of Findings

A site-specific analysis is required. The licensee must provide, in their PSDAR submittal, appropriate information related to the issue of environmental justice.

Table H-2. (contd)

Cultural Impacts (4.3.14)

Activities that could have Cultural impacts

Stabilization

- Repower site from outside

Large Component Removal

- Remove reactor vessel and internals intact or cut up and lay down areas
- Remove steam generator and other large components intact or cut up

Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1

- Remove contaminated soil from specific areas
-

Generic

Yes - for most activities and reactor types

No - Requires a site-specific analysis if the activities are outside the boundaries of previously disturbed areas and there is no current cultural or historic assessment available.

Impact and Summary of Findings

Activities are within the boundaries of the previously disturbed areas - SMALL

Activities are outside the boundaries of the previously disturbed areas and there is a current cultural resource survey available - SMALL

Table H-2. (contd)

Aesthetic Issues (4.3.15)

Activities that could have Aesthetic impacts

Structure Dismantlement

- Rubblization
- Remove structures that are necessary for plant operation

Entombment

- Install engineered barriers
 - Entomb facility in concrete
-

Generic

Yes - for all decommissioning activities

Impact and Summary of Findings

Visual intrusion would be temporary and would serve to reduce the aesthetic impact of the site for most decommissioning activities - SMALL

Table H-2. (contd)

Noise (4.3.16)

Activities that could have Noise impacts

Structure Dismantlement

- Rubblization
- Remove structures that are necessary for plant operation

Entombment

- Install engineered barriers
 - Remove radioactive structures outside containment
 - Entomb facility in concrete
-

Generic

Yes - for all activities and reactor types

Impact and Summary of Findings

Noise levels are easily controlled during most decommissioning activities - SMALL

Table H-2. (contd)

Transportation (4.3.17)

Issues that could be impacted by Transportation activities

Air Quality
 Radiological
 Radiological accidents
 Cost
 Environmental justice
 Irretrievable resources

Generic

Yes - for all activities and reactor types

Impact and Summary of Findings

All activities, both radiological and nonradiological, related to transportation that are identified in this Supplement - SMALL

Table H-2. (contd)

1	
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4	Irretrievable Resources (4.3.18)
5	Activities that could impact Irretrievable Resources
6	System Dismantlement
7	• Cut out radioactive piping
8	• Remove large and small pipes
9	Structure Dismantlement
10	• Rubblization
11	• Remove structures necessary for plant operations
12	LLW packaging and storage
13	Transportation
14	• Large components
15	• LLW
16	• Backfill for site
17	• Nonradioactive waste
18	Generic
19	Yes - for all decommissioning activities
20	Impact and Summary of Findings
21	All activities and options related to irretrievable resources - SMALL
22	