

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

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
	• Drain primary system
	• Process liquid
	Organizational changes
	• Adjust site training
	• Changes to licensing basis - site-specific
	Stabilization
	Post-shutdown surveys
	Create nuclear island
	Chemical decontamination of primary loop
	Large component removal
	• 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
	• 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)

Issue	Activity
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
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)

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
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
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)

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)

Issue	Activity
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
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)

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)

Issue	Activity
Socioeconomic	Remove fuel
	Organizational changes
	• 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
	• 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)

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)

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 • Equipment into site License termination activities

Table H-2. Summary of Environmental Impacts

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.	

Table H-2. (contd)

Water Quality (4.3.3)	
Activities that could impact the Water Quality	
Remove Fuel	
• Transfer fuel to spent fuel pool	
• Drain primary system	
• Process liquid	
Stabilization	
• Drain and flush system	
Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1	
• High-pressure water spray	
Structure dismantlement (pH concerns)	
• Rubblization	
Generic	
Yes - for all activities and reactor types	
Impact and Summary of Findings	
All activities related to water quality (surface and groundwater) that are identified in this Supplement - SMALL	
The releases during decommissioning are within the NPDES guidelines.	

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	

Table H-2. (contd)

Threatened and Endangered Species (4.3.7)	
Activities that could impact Threatened and Endangered Species	
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	
Generic	
No - Requires a site-specific analysis and continued monitoring of site activities for new and significant information about the presence of threatened and endangered species.	
Impact and Summary of Findings	
A site-specific analysis is required. The appropriate Federal agency (either U.S. Fish and Wildlife Service or the National Marine Fisheries Service) must be consulted about the 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)

Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1
• Chemical decontamination
• Decontaminate pipes in walls
• High-pressure water sprays
• Remove contaminated soil
• Preventive and corrective maintenance on SSCs
System Dismantlement
• Cut out radioactive piping
• Remove tanks and other components
Entombment
• Install engineered barriers
• Disconnect operational systems
• Remove radioactive material from outside of containment
• Place material inside containment
• Lower containment ceiling
Transportation
• Large components
• LLW
License Termination Activities
• Final radiation survey
Generic
Yes - for all activities and reactor types
Impact and Summary of Findings
Activities resulting in occupational doses to workers - SMALL
Activities resulting in dose to the public - SMALL

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	
Stabilization	
• Rewire site from outside	
Create nuclear island	
• Install electrical supply	
• Move old or install new security-related power	
Chemical decontamination of the primary loop	
• Cutting, chemicals in and out, cleanup/DECON	
Large component removal	
• Remove reactor vessel	
• Remove steam generator and other large components	
SAFSTOR preparation	
• De-energize systems	
Decontamination and Dismantlement Phases of DECON, SAFSTOR, and ENTOMB1	
• Decontaminate piping inside walls	
• Remove contaminated soil	
Structure Dismantlement	
• Rubblization	
• Remove structures necessary for plant operation	
Entombment	
• Install engineered barriers	
• Disconnect operational systems	
• Remove radioactive material outside containment	
• Place material inside containment	
• Lower containment ceilings	
• Entomb facility in concrete	
Generic	
Yes - for all activities and reactor types	
Impact and Summary of Findings	
All activities related to occupational noise, temperature, ergonomic, and biological hazards if proper ES&H procedures are followed - SMALL	
Activities including physical injuries from construction or demolition activities, electrical shock, 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)

Irretrievable Resources (4.3.18)	
Activities that could impact Irretrievable Resources	
System Dismantlement	
• Cut out radioactive piping	
• Remove large and small pipes	
Structure Dismantlement	
• Rubblization	
• Remove structures necessary for plant operations	
LLW packaging and storage	
Transportation	
• Large components	
• LLW	
• Backfill for site	
• Nonradioactive waste	
Generic	
Yes - for all decommissioning activities	
Impact and Summary of Findings	
All activities and options related to irretrievable resources - SMALL	