

UFD FEP ID No., Title, and Media	Overall Priority Score
2.2.01.01 - Evolution of EDZ - Clay/Shale	8.00
2.2.08.01 - Flow Through the Host Rock - Salt	7.73
2.2.08.02 - Flow Through the Other Geologic Units - Confining units - Aquifers - Salt	7.73
2.2.08.06 - Flow Through EDZ - Salt	7.73
2.2.08.04 - Effects of Repository Excavation on Flow Through the Host Rock - Salt	7.10
2.2.08.07 - Mineralogic Dehydration - Salt	6.49
2.2.01.01 - Evolution of EDZ - Deep Boreholes	6.13
2.2.09.01 - Chemical Characteristics of Groundwater in Host Rock - Deep Boreholes	5.86
2.2.09.02 - Chemical Characteristics of Groundwater in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Deep Boreholes	5.86
2.2.09.05 - Radionuclide Speciation and Solubility in Host Rock - Deep Boreholes	5.86
2.2.09.06 - Radionuclide Speciation and Solubility in Other Geologic Units (Non-Host-Rock) - Deep Boreholes	5.86
2.2.09.03 - Chemical Interactions and Evolution of Groundwater in Host Rock - Deep Boreholes	5.40
2.2.09.04 - Chemical Interactions and Evolution of Groundwater in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Deep Boreholes	5.40
1.2.03.01 - Seismic Activity Impacts EBS and/or EBS Components -	4.94
2.1.09.13 - Radionuclide Speciation and Solubility in EBS - In Waste Form - In Waste Package - In Backfill - In Tunnel -	4.86
2.1.03.02 - General Corrosion of Waste Packages -	4.34
2.1.03.03 - Stress Corrosion Cracking (SCC) of Waste Packages -	4.34
2.1.03.04 - Localized Corrosion of Waste Packages -	4.34
2.1.03.05 - Hydride Cracking of Waste Packages -	4.34
2.1.02.01 - SNF (Commercial, DOE) Degradation - Alteration / Phase Separation - Dissolution / Leaching - Radionuclide Release -	4.01
2.2.07.01 - Mechanical Effects on Host Rock - Salt	3.83
2.2.07.01 - Mechanical Effects on Host Rock - Clay/Shale	3.83
2.2.02.01 - Stratigraphy and Properties of Host Rock - Granite/Crystalline	3.74
2.2.02.01 - Stratigraphy and Properties of Host Rock - Deep Boreholes	3.74
2.2.02.01 - Stratigraphy and Properties of Host Rock - Salt	3.74
2.2.02.01 - Stratigraphy and Properties of Host Rock - Clay/Shale	3.74

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2.2.09.51 - Advection of Dissolved Radionuclides in Host Rock - Granite/Crystalline	3.74
2.2.09.51 - Advection of Dissolved Radionuclides in Host Rock - Clay/Shale	3.74
2.2.05.01 - Fractures - Host Rock - Other Geologic Units - Granite/Crystalline	3.65
2.2.05.01 - Fractures - Host Rock - Other Geologic Units - Deep Boreholes	3.65
2.2.05.01 - Fractures - Host Rock - Other Geologic Units - Salt	3.65
2.2.05.01 - Fractures - Host Rock - Other Geologic Units - Clay/Shale	3.65
2.2.08.01 - Flow Through the Host Rock - Granite/Crystalline	3.65
2.2.08.01 - Flow Through the Host Rock - Deep Boreholes	3.65
2.2.08.01 - Flow Through the Host Rock - Clay/Shale	3.65
2.2.08.02 - Flow Through the Other Geologic Units - Confining units - Aquifers - Granite/Crystalline	3.65
2.2.08.02 - Flow Through the Other Geologic Units - Confining units - Aquifers - Deep Boreholes	3.65
2.2.08.02 - Flow Through the Other Geologic Units - Confining units - Aquifers - Clay/Shale	3.65
2.2.08.06 - Flow Through EDZ - Granite/Crystalline	3.65
2.2.08.06 - Flow Through EDZ - Deep Boreholes	3.65
2.2.08.06 - Flow Through EDZ - Clay/Shale	3.65
2.1.02.06 - SNF Cladding Degradation and Failure -	3.62
2.2.09.01 - Chemical Characteristics of Groundwater in Host Rock - Clay/Shale	3.55
2.2.09.02 - Chemical Characteristics of Groundwater in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Clay/Shale	3.55
2.2.09.05 - Radionuclide Speciation and Solubility in Host Rock - Clay/Shale	3.55
2.2.09.06 - Radionuclide Speciation and Solubility in Other Geologic Units (Non-Host-Rock) - Clay/Shale	3.55
2.2.09.52 - Advection of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Granite/Crystalline	3.55

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2.2.09.52 - Advection of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Clay/Shale	3.55
2.2.09.53 - Diffusion of Dissolved Radionuclides in Host Rock - Granite/Crystalline	3.55
2.2.09.53 - Diffusion of Dissolved Radionuclides in Host Rock - Clay/Shale	3.55
2.2.09.54 - Diffusion of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Granite/Crystalline	3.55
2.2.09.54 - Diffusion of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Clay/Shale	3.55
2.2.09.55 - Sorption of Dissolved Radionuclides in Host Rock - Granite/Crystalline	3.55
2.2.09.55 - Sorption of Dissolved Radionuclides in Host Rock - Clay/Shale	3.55
2.2.09.56 - Sorption of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Granite/Crystalline	3.55
2.2.09.56 - Sorption of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Clay/Shale	3.55
2.2.09.57 - Complexation in Host Rock - Granite/Crystalline	3.55
2.2.09.57 - Complexation in Host Rock - Clay/Shale	3.55
2.2.09.58 - Complexation in Other Geologic Units (Non-Host-Rock) - Granite/Crystalline	3.55
2.2.09.58 - Complexation in Other Geologic Units (Non-Host-Rock) - Clay/Shale	3.55
2.2.09.61 - Radionuclide Transport Through EDZ - Granite/Crystalline	3.55
2.2.09.61 - Radionuclide Transport Through EDZ - Clay/Shale	3.55
2.2.09.64 - Radionuclide Release from Host Rock - Dissolved - Colloidal - Gas Phase - Granite/Crystalline	3.55
2.2.09.64 - Radionuclide Release from Host Rock - Dissolved - Colloidal - Gas Phase - Clay/Shale	3.55
2.2.09.65 - Radionuclide Release from Other Geologic Units - Dissolved - Colloidal - Gas Phase - Granite/Crystalline	3.55
2.2.09.65 - Radionuclide Release from Other Geologic Units - Dissolved - Colloidal - Gas Phase - Clay/Shale	3.55

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2.2.11.04 - Thermal Effects on Chemistry and Microbial Activity in Geosphere - Deep Boreholes	3.55
2.2.11.04 - Thermal Effects on Chemistry and Microbial Activity in Geosphere - Clay/Shale	3.55
2.1.04.01 - Evolution and Degradation of Backfill/buffer -	3.50
2.1.05.01 - Degradation of Seals -	3.50
2.2.11.06 - Thermal-Mechanical Effects on Geosphere - Deep Boreholes	3.40
2.2.11.06 - Thermal-Mechanical Effects on Geosphere - Clay/Shale	3.40
2.2.11.07 - Thermal-Chemical Alteration of Geosphere - Deep Boreholes	3.40
2.2.11.07 - Thermal-Chemical Alteration of Geosphere - Clay/Shale	3.40
2.1.07.03 - Mechanical Effects of Backfill -	3.29
2.2.09.59 - Colloidal Transport in Host Rock - Granite/Crystalline	3.29
2.2.09.59 - Colloidal Transport in Host Rock - Clay/Shale	3.29
2.2.09.60 - Colloidal Transport in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Granite/Crystalline	3.29
2.2.09.60 - Colloidal Transport in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Clay/Shale	3.29
2.2.08.04 - Effects of Repository Excavation on Flow Through the Host Rock - Granite/Crystalline	3.23
2.2.08.04 - Effects of Repository Excavation on Flow Through the Host Rock - Deep Boreholes	3.23
2.2.08.04 - Effects of Repository Excavation on Flow Through the Host Rock - Clay/Shale	3.23
2.2.12.02 - Effects of Gas on Flow Through the Geosphere - Salt	3.23
2.2.07.02 - Mechanical Effects on Other Geologic Units - Salt	3.10
2.2.07.02 - Mechanical Effects on Other Geologic Units - Clay/Shale	3.10
2.2.09.03 - Chemical Interactions and Evolution of Groundwater in Host Rock - Clay/Shale	3.10
2.2.09.04 - Chemical Interactions and Evolution of Groundwater in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Clay/Shale	3.10
2.2.09.62 - Dilution of Radionuclides in Groundwater - Host Rock - Other Geologic Units - Granite/Crystalline	3.10
2.2.09.62 - Dilution of Radionuclides in Groundwater - Host Rock - Other Geologic Units - Clay/Shale	3.10
2.2.09.63 - Dilution of Radionuclides with Stable Isotopes - Host Rock - Other Geologic Units - Granite/Crystalline	3.10
2.2.09.63 - Dilution of Radionuclides with Stable Isotopes - Host Rock - Other Geologic Units - Clay/Shale	3.10

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2.2.11.01 - Thermal Effects on Flow in Geosphere - Repository-Induced - Natural Geothermal - Deep Boreholes	3.10
2.2.11.01 - Thermal Effects on Flow in Geosphere - Repository-Induced - Natural Geothermal - Clay/Shale	3.10
2.2.11.02 - Thermally-Driven Flow (Convection) in Geosphere - Deep Boreholes	3.10
2.2.11.02 - Thermally-Driven Flow (Convection) in Geosphere - Clay/Shale	3.10
2.1.09.51 - Advection of Dissolved Radionuclides in EBS - In Waste Form - In Waste Package - In Backfill - In Tunnel -	3.06
2.1.09.52 - Diffusion of Dissolved Radionuclides in EBS - In Waste Form - In Waste Package - In Backfill - In Tunnel -	3.06
2.1.09.53 - Sorption of Dissolved Radionuclides in EBS - In Waste Form - In Waste Package - In Backfill - In Tunnel -	3.06
2.1.07.04 - Mechanical Impact on Backfill -	2.94
2.2.08.07 - Mineralogic Dehydration - Granite/Crystalline	2.82
2.2.08.07 - Mineralogic Dehydration - Deep Boreholes	2.82
2.2.08.07 - Mineralogic Dehydration - Clay/Shale	2.82
2.1.08.04 - Flow Through Seals -	2.80
2.1.09.07 - Chemical Interaction of Water with Liner / Rock Reinforcement and Cementitious Materials in EBS - In Backfill - In Tunnels -	2.80
2.1.07.05 - Mechanical Impact on Waste Packages -	2.76
2.1.08.03 - Flow in Backfill -	2.76
2.1.09.02 - Chemical Characteristics of Water in Waste Packages -	2.76
2.1.07.02 - - Drift Collapse - Drift deformation (EDZ) -	2.70
2.1.09.01 - Chemistry of Water Flowing into the Repository -	2.64
2.1.06.01 - Degradation of Liner / Rock Reinforcement Materials in EBS -	2.62
2.1.09.09 - Chemical Effects at EBS Component Interfaces -	2.61
2.1.11.01 - Heat Generation in EBS -	2.59

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2.2.01.01 - Evolution of EDZ - Granite/Crystalline	2.58
2.2.01.01 - Evolution of EDZ - Salt	2.58
2.1.07.09 - Mechanical Effects at EBS Component Interfaces -	2.56
2.2.09.51 - Advection of Dissolved Radionuclides in Host Rock - Deep Boreholes	2.53
2.2.09.51 - Advection of Dissolved Radionuclides in Host Rock - Salt	2.53
2.1.07.06 - Mechanical Impact on SNF Waste Form -	2.47
2.2.03.01 - Stratigraphy and Properties of Other Geologic Units (Non-Host-Rock) - Granite/Crystalline	2.46
2.2.03.01 - Stratigraphy and Properties of Other Geologic Units (Non-Host-Rock) - Deep Boreholes	2.46
2.2.03.01 - Stratigraphy and Properties of Other Geologic Units (Non-Host-Rock) - Salt	2.46
2.2.03.01 - Stratigraphy and Properties of Other Geologic Units (Non-Host-Rock) - Clay/Shale	2.46
2.2.05.03 - Alteration and Evolution of Geosphere Flow Pathways - Host Rock - Other Geologic Units - Granite/Crystalline	2.46
2.2.05.03 - Alteration and Evolution of Geosphere Flow Pathways - Host Rock - Other Geologic Units - Deep Boreholes	2.46
2.2.05.03 - Alteration and Evolution of Geosphere Flow Pathways - Host Rock - Other Geologic Units - Salt	2.46
2.2.05.03 - Alteration and Evolution of Geosphere Flow Pathways - Host Rock - Other Geologic Units - Clay/Shale	2.46
2.2.11.03 - Thermally-Driven Buoyant Flow / Heat Pipes in Geosphere - Deep Boreholes	2.46
2.2.11.03 - Thermally-Driven Buoyant Flow / Heat Pipes in Geosphere - Clay/Shale	2.46
2.2.12.03 - Gas Transport in Geosphere - Salt	2.46
2.2.09.01 - Chemical Characteristics of Groundwater in Host Rock - Granite/Crystalline	2.40
2.2.09.01 - Chemical Characteristics of Groundwater in Host Rock - Salt	2.40
2.2.09.02 - Chemical Characteristics of Groundwater in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Granite/Crystalline	2.40
2.2.09.02 - Chemical Characteristics of Groundwater in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Salt	2.40
2.2.09.05 - Radionuclide Speciation and Solubility in Host Rock - Granite/Crystalline	2.40
2.2.09.05 - Radionuclide Speciation and Solubility in Host Rock - Salt	2.40
2.2.09.06 - Radionuclide Speciation and Solubility in Other Geologic Units (Non-Host-Rock) - Granite/Crystalline	2.40
2.2.09.06 - Radionuclide Speciation and Solubility in Other Geologic Units (Non-Host-Rock) - Salt	2.40

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2.2.09.52 - Advection of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Deep Boreholes	2.40
2.2.09.52 - Advection of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Salt	2.40
2.2.09.53 - Diffusion of Dissolved Radionuclides in Host Rock - Deep Boreholes	2.40
2.2.09.53 - Diffusion of Dissolved Radionuclides in Host Rock - Salt	2.40
2.2.09.54 - Diffusion of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Deep Boreholes	2.40
2.2.09.54 - Diffusion of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Salt	2.40
2.2.09.55 - Sorption of Dissolved Radionuclides in Host Rock - Deep Boreholes	2.40
2.2.09.55 - Sorption of Dissolved Radionuclides in Host Rock - Salt	2.40
2.2.09.56 - Sorption of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Deep Boreholes	2.40
2.2.09.56 - Sorption of Dissolved Radionuclides in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Salt	2.40
2.2.09.57 - Complexation in Host Rock - Deep Boreholes	2.40
2.2.09.57 - Complexation in Host Rock - Salt	2.40
2.2.09.58 - Complexation in Other Geologic Units (Non-Host-Rock) - Deep Boreholes	2.40
2.2.09.58 - Complexation in Other Geologic Units (Non-Host-Rock) - Salt	2.40
2.2.09.61 - Radionuclide Transport Through EDZ - Deep Boreholes	2.40
2.2.09.61 - Radionuclide Transport Through EDZ - Salt	2.40
2.2.09.64 - Radionuclide Release from Host Rock - Dissolved - Colloidal - Gas Phase - Deep Boreholes	2.40
2.2.09.64 - Radionuclide Release from Host Rock - Dissolved - Colloidal - Gas Phase - Salt	2.40
2.2.09.65 - Radionuclide Release from Other Geologic Units - Dissolved - Colloidal - Gas Phase - Deep Boreholes	2.40

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2.2.09.65 - Radionuclide Release from Other Geologic Units - Dissolved - Colloidal - Gas Phase - Salt	2.40
2.2.11.04 - Thermal Effects on Chemistry and Microbial Activity in Geosphere - Granite/Crystalline	2.40
2.2.11.04 - Thermal Effects on Chemistry and Microbial Activity in Geosphere - Salt	2.40
2.1.11.04 - Effects of Drift Collapse on EBS Thermal Environment -	2.39
1.2.03.02 - Seismic Activity Impacts Geosphere - Host Rock - Other Geologic Units -	2.34
2.2.11.06 - Thermal-Mechanical Effects on Geosphere - Granite/Crystalline	2.30
2.2.11.06 - Thermal-Mechanical Effects on Geosphere - Salt	2.30
2.2.11.07 - Thermal-Chemical Alteration of Geosphere - Granite/Crystalline	2.30
2.2.11.07 - Thermal-Chemical Alteration of Geosphere - Salt	2.30
2.2.09.59 - Colloidal Transport in Host Rock - Deep Boreholes	2.22
2.2.09.59 - Colloidal Transport in Host Rock - Salt	2.22
2.2.09.60 - Colloidal Transport in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Deep Boreholes	2.22
2.2.09.60 - Colloidal Transport in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Salt	2.22
2.1.11.03 - Effects of Backfill on EBS Thermal Environment -	2.22
2.2.12.02 - Effects of Gas on Flow Through the Geosphere - Clay/Shale	2.18
2.1.07.08 - Mechanical Impact on Other EBS Components - Seals - Liner/Rock Reinforcement Materials - Waste Package Support Materials -	2.16
0.1.03.01 - Spatial Domain of Concern -	2.14
2.2.09.03 - Chemical Interactions and Evolution of Groundwater in Host Rock - Granite/Crystalline	2.10
2.2.09.03 - Chemical Interactions and Evolution of Groundwater in Host Rock - Salt	2.10
2.2.09.04 - Chemical Interactions and Evolution of Groundwater in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Granite/Crystalline	2.10
2.2.09.04 - Chemical Interactions and Evolution of Groundwater in Other Geologic Units (Non-Host-Rock) - Confining units - Aquifers - Salt	2.10

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2.2.09.62 - Dilution of Radionuclides in Groundwater - Host Rock - Other Geologic Units - Deep Boreholes	2.10
2.2.09.62 - Dilution of Radionuclides in Groundwater - Host Rock - Other Geologic Units - Salt	2.10
2.2.09.63 - Dilution of Radionuclides with Stable Isotopes - Host Rock - Other Geologic Units - Deep Boreholes	2.10
2.2.09.63 - Dilution of Radionuclides with Stable Isotopes - Host Rock - Other Geologic Units - Salt	2.10
2.2.11.01 - Thermal Effects on Flow in Geosphere - Repository-Induced - Natural Geothermal - Granite/Crystalline	2.10
2.2.11.01 - Thermal Effects on Flow in Geosphere - Repository-Induced - Natural Geothermal - Salt	2.10
2.2.11.02 - Thermally-Driven Flow (Convection) in Geosphere - Granite/Crystalline	2.10
2.2.11.02 - Thermally-Driven Flow (Convection) in Geosphere - Salt	2.10
2.1.01.01 - Waste Inventory - Radionuclides - Non-Radionuclides -	2.05
2.1.08.08 - Capillary Effects in EBS -	2.02
2.1.03.08 - Evolution of Flow Pathways in Waste Packages -	1.96
2.1.01.03 - Heterogeneity of Waste Inventory - Waste Package Scale - Repository Scale -	1.92
2.1.08.09 - Influx/Seepage Into the EBS -	1.89
1.3.01.01 - Climate Change - Natural - Anthropogenic -	1.85
1.3.04.01 - Periglacial Effects -	1.85
1.3.05.01 - Glacial and Ice Sheet Effects -	1.85
2.1.09.55 - Formation of Colloids in EBS - In Waste Form - In Waste Package - In Backfill - In Tunnel -	1.79

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2.1.09.56 - Stability of Colloids in EBS - In Waste Form - In Waste Package - In Backfill - In Tunnel -	1.79
2.1.09.04 - Chemical Characteristics of Water in Tunnels -	1.77
2.1.02.03 - Degradation of Organic/Cellulosic Materials in Waste -	1.73
2.1.02.05 - Pyrophoricity or Flammable Gas from SNF or HLW -	1.73
2.1.08.07 - Condensation Forms in Repository - On Tunnel Roof/Walls - On EBS Components - Moisture transport -	1.73
2.1.13.02 - Radiation Damage to EBS Components - Waste Form - Waste Package - Backfill - Other EBS Components -	1.73
2.2.11.03 - Thermally-Driven Buoyant Flow / Heat Pipes in Geosphere - Granite/Crystalline	1.66
2.2.11.03 - Thermally-Driven Buoyant Flow / Heat Pipes in Geosphere - Salt	1.66
2.2.12.03 - Gas Transport in Geosphere - Clay/Shale	1.66
2.2.07.01 - Mechanical Effects on Host Rock - Granite/Crystalline	1.63
2.2.07.01 - Mechanical Effects on Host Rock - Deep Boreholes	1.63
2.1.09.54 - Complexation in EBS -	1.62
2.3.08.02 - Surface Runoff and Evapotranspiration -	1.58
2.3.08.03 - Infiltration and Recharge -	1.58
2.1.01.04 - Interactions Between Co-Located Waste -	1.47
2.1.09.03 - Chemical Characteristics of Water in Backfill -	1.47
1.2.01.01 - Tectonic Activity – Large Scale -	1.44
1.2.08.01 - Diagenesis - Clay/shale	1.44
1.2.09.01 - Diapirism - Salt	1.44
2.1.09.57 - Advection of Colloids in EBS - In Waste Form - In Waste Package - In Backfill - In Tunnel -	1.42
2.1.09.58 - Diffusion of Colloids in EBS - In Waste Form - In Waste Package - In Backfill - In Tunnel -	1.42

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2.1.09.59 - Sorption of Colloids in EBS - In Waste Form - In Waste Package - In Backfill - In Tunnel -	1.42
2.1.09.61 - Filtration of Colloids in EBS -	1.42
2.2.12.02 - Effects of Gas on Flow Through the Geosphere - Granite/Crystalline	1.37
2.2.12.02 - Effects of Gas on Flow Through the Geosphere - Deep Boreholes	1.37
2.2.07.02 - Mechanical Effects on Other Geologic Units - Granite/Crystalline	1.32
2.2.07.02 - Mechanical Effects on Other Geologic Units - Deep Boreholes	1.32
2.2.10.01 - Microbial Activity in Host Rock - Granite/Crystalline	1.32
2.2.10.01 - Microbial Activity in Host Rock - Deep Boreholes	1.32
2.2.10.01 - Microbial Activity in Host Rock - Salt	1.32
2.2.10.01 - Microbial Activity in Host Rock - Clay/Shale	1.32
2.2.10.02 - Microbial Activity in Other Geologic Units (Non-Host-Rock) - Granite/Crystalline	1.32
2.2.10.02 - Microbial Activity in Other Geologic Units (Non-Host-Rock) - Deep Boreholes	1.32
2.2.10.02 - Microbial Activity in Other Geologic Units (Non-Host-Rock) - Salt	1.32
2.2.10.02 - Microbial Activity in Other Geologic Units (Non-Host-Rock) - Clay/Shale	1.32
2.2.12.03 - Gas Transport in Geosphere - Granite/Crystalline	1.05
2.2.12.03 - Gas Transport in Geosphere - Deep Boreholes	1.05
2.1.12.03 - Gas Transport in EBS -	1.02
2.1.11.02 - Exothermic Reactions in EBS -	0.99
2.1.12.01 - Gas Generation in EBS -	0.98
2.1.12.02 - Effects of Gas on Flow Through the EBS -	0.98
2.1.14.01 - Criticality In-Package -	0.96
2.1.14.02 - Criticality in EBS or Near-Field -	0.96
2.1.08.02 - Flow In and Through Waste Packages -	0.86
2.3.09.52 - Surface Water Transport Through Biosphere -	0.85
2.3.09.53 - Soil and Sediment Transport Through Biosphere -	0.85
2.3.09.54 - Radionuclide Accumulation in Soils -	0.85
2.1.08.05 - Flow Through Liner / Rock Reinforcement Materials in EBS -	0.85
2.3.09.51 - Atmospheric Transport Through Biosphere -	0.73
2.3.09.55 - Recycling of Accumulated Radionuclides from Soils to Groundwater -	0.73
3.3.04.01 - Ingestion -	0.54
3.3.04.02 - Inhalation -	0.54
3.3.04.03 - External Exposure -	0.54
2.1.03.01 - Early Failure of Waste Packages -	0.38
0.1.02.01 - Timescales of Concern -	0.00
0.1.09.01 - Regulatory Requirements and Exclusions -	0.00
0.1.10.01 - Model Issues -	0.00
0.1.10.02 - Data Issues -	0.00

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1.1.01.01 - Open Boreholes -	0.00
1.1.02.01 - Chemical Effects from Preclosure Operations -	0.00
1.1.02.02 - Chemical Effects from Preclosure Operations - In EBS - In EDZ - In Host Rock -	0.00
1.1.02.03 - Mechanical Effects from Preclosure Operations - In EBS - In EDZ - In Host Rock -	0.00
1.1.08.01 - Deviations from Design and Inadequate Quality Control -	0.00
1.1.10.01 - Control of Repository Site -	0.00
1.1.13.01 - Retrievalability -	0.00
1.2.02.01 - Subsidence -	0.00
1.2.05.01 - Metamorphism -	0.00
1.2.09.02 - Large-Scale Dissolution -	0.00
1.2.03.03 - Seismic Activity Impacts Biosphere - Surface Environment - Human Behavior -	0.00
1.2.04.01 - Igneous Activity Impacts EBS and/or EBS Components -	0.00
1.2.04.02 - Igneous Activity Impacts Geosphere - Host Rock - Other Geologic Units -	0.00
1.2.04.03 - Igneous Activity Impacts Biosphere - Surface Environment - Human Behavior -	0.00
1.4.01.01 - Human Influences on Climate - Intentional - Accidental -	0.00
1.4.02.01 - Human Intrusion - Deliberate - Inadvertent -	0.00
1.4.11.01 - Explosions and Crashes from Human Activities -	0.00
1.5.01.01 - Meteorite Impact -	0.00
1.5.01.02 - Extraterrestrial Events -	0.00
1.5.03.01 - Earth Planetary Changes -	0.00
2.1.01.02 - Radioactive Decay and Ingrowth -	0.00

UFD FEP ID No., Title, and Media	Overall Priority Score
2.1.02.02 - HLW (Glass, Ceramic, Metal) Degradation - Alteration / Phase Separation - Dissolution / Leaching - Cracking - Radionuclide Release -	0.00
2.1.02.04 - HLW (Glass, Ceramic, Metal) Recrystallization -	0.00
2.1.03.06 - Microbially Influenced Corrosion (MIC) of Waste Packages -	0.00
2.1.03.07 - Internal Corrosion of Waste Packages Prior to Breach -	0.00
2.1.07.01 - Rockfall -	0.00
2.1.07.07 - Mechanical Impact on HLW Waste Form -	0.00
2.1.07.10 - Mechanical Degradation of EBS -	0.00
2.1.08.01 - Flow Through the EBS -	0.00
2.1.08.06 - Alteration and Evolution of EBS Flow Pathways -	0.00
2.1.09.05 - Chemical Interaction of Water with Corrosion Products - In Waste Packages - In Backfill - In Tunnels -	0.00
2.1.09.06 - Chemical Interaction of Water with Backfill - On Waste Packages - In Backfill - In Tunnels -	0.00
2.1.09.08 - Chemical Interaction of Water with Other EBS Components - In Waste Packages - In Tunnels -	0.00
2.1.09.10 - Chemical Effects of Waste-Rock Contact (ASSUMING AS EBS - ROCK CONTACT) -	0.00
2.1.09.11 - Electrochemical Effects in EBS -	0.00
2.1.09.12 - Chemical Effects of Drift Collapse -	0.00
2.1.09.60 - Sorption of Colloids at Air-Water Interface in EBS -	0.00
2.1.09.62 - Radionuclide Transport Through Liners and Seals -	0.00
2.1.09.63 - Radionuclide Release from the EBS - Dissolved - Colloidal - Gas Phase -	0.00
2.1.10.01 - Microbial Activity in EBS - Natural - Anthropogenic -	0.00
2.1.11.05 - Effects of Influx (Seepage) on Thermal Environment -	0.00
2.1.11.06 - Thermal-Mechanical Effects on Waste Form and In-Package EBS Components -	0.00

UFD FEP ID No., Title, and Media	Overall Priority Score
2.1.11.07 - Thermal-Mechanical Effects on Waste Packages -	0.00
2.1.11.08 - Thermal-Mechanical Effects on Backfill -	0.00
2.1.11.09 - Thermal-Mechanical Effects on Other EBS Components - Seals - Liner / Rock Reinforcement Materials - Waste Package Support Structure -	0.00
2.1.11.10 - Thermal Effects on Flow in EBS -	0.00
2.1.11.11 - Thermally-Driven Flow (Convection) in EBS -	0.00
2.1.11.12 - Thermally-Driven Buoyant Flow / Heat Pipes in EBS -	0.00
2.1.11.13 - Thermal Effects on Chemistry and Microbial Activity in EBS -	0.00
2.1.11.14 - Thermal Effects on Transport in EBS -	0.00
2.1.12.04 - Gas Explosions in EBS -	0.00
2.1.13.01 - Radiolysis - In Waste Package - In Backfill - In Tunnel -	0.00
2.1.13.03 - Radiological Mutation of Microbes -	0.00
2.2.08.03 - Effects of Recharge on Geosphere Flow - Host Rock - Other Geologic Units - 0	0.00
2.2.08.03 - Effects of Recharge on Geosphere Flow - Host Rock - Other Geologic Units - 0	0.00
2.2.08.03 - Effects of Recharge on Geosphere Flow - Host Rock - Other Geologic Units - 0	0.00
2.2.08.03 - Effects of Recharge on Geosphere Flow - Host Rock - Other Geologic Units - 0	0.00
2.2.08.05 - Condensation Forms in Host Rock - 0	0.00
2.2.08.05 - Condensation Forms in Host Rock - 0	0.00
2.2.08.05 - Condensation Forms in Host Rock - 0	0.00
2.2.08.05 - Condensation Forms in Host Rock - 0	0.00
2.2.08.08 - Groundwater Discharge to Biosphere Boundary - 0	0.00
2.2.08.08 - Groundwater Discharge to Biosphere Boundary - 0	0.00
2.2.08.08 - Groundwater Discharge to Biosphere Boundary - 0	0.00
2.2.08.08 - Groundwater Discharge to Biosphere Boundary - 0	0.00
2.2.08.09 - Groundwater Discharge to Well - 0	0.00
2.2.08.09 - Groundwater Discharge to Well - 0	0.00

Appendix B

UFD FEP ID No., Title, and Media	Overall Priority Score
2.2.08.09 - Groundwater Discharge to Well - 0	0.00
2.2.08.09 - Groundwater Discharge to Well - 0	0.00
2.2.11.05 - Thermal Effects on Transport in Geosphere - Granite/Crystalline	0.00
2.2.11.05 - Thermal Effects on Transport in Geosphere - Deep Boreholes	0.00
2.2.11.05 - Thermal Effects on Transport in Geosphere - Salt	0.00
2.2.11.05 - Thermal Effects on Transport in Geosphere - Clay/Shale	0.00
2.2.12.01 - Gas Generation in Geosphere - Deep Boreholes	0.00
2.2.12.01 - Gas Generation in Geosphere - Salt	0.00
2.2.12.01 - Gas Generation in Geosphere - Clay/Shale	0.00
2.2.12.01 - Gas Generation in Geosphere - Granite/Crystalline	0.00
2.2.14.01 - Criticality in Geosphere -	0.00
2.3.01.01 - Topography and Surface Morphology -	0.00
2.3.02.01 - Surficial Soil Type -	0.00
2.3.04.01 - Surface Water -	0.00
2.3.05.01 - Biosphere Characteristics -	0.00
2.3.07.01 - Erosion -	0.00
2.3.07.02 - Deposition -	0.00
2.3.07.03 - Animal Intrusion into Repository -	0.00
2.3.08.01 - Precipitation -	0.00
2.3.09.01 - Chemical Characteristics of Soil and Surface Water -	0.00
2.3.09.02 - Radionuclide Speciation and Solubility in Biosphere -	0.00
2.3.09.03 - Radionuclide Alteration in Biosphere -	0.00
2.3.10.01 - Microbial Activity in Biosphere -	0.00
2.3.11.01 - Effects of Repository Heat on Biosphere -	0.00
2.4.01.01 - Human Characteristics -	0.00
2.4.01.02 - Human Evolution -	0.00
2.4.04.01 - Human Lifestyle -	0.00
2.4.08.01 - Land and Water Use -	0.00
2.4.08.02 - Evolution of Land and Water Use -	0.00
3.3.01.01 - Radionuclides in Biosphere Media -	0.00
3.3.01.02 - Radionuclides in Food Products -	0.00
3.3.01.03 - Radionuclides in Non-Food Products -	0.00
3.3.06.01 - Radiation Doses -	0.00
3.3.06.02 - Radiological Toxicity and Effects -	0.00
3.3.06.03 - Non-Radiological Toxicity and Effects -	0.00