HLWYM HEmails

From: Jeffrey Borowitz [JAB1@nrc.gov]
Sent: Friday, August 19, 2005 7:32 AM
To: Bret Leslie
Subject: Presentation Keys
Attachments: ENG1 to Dose.dot key.txt; UZ2 ISI Neighbors.dot key.txt; ENG3 ISI Neighbors.dot key.txt; ENG3 ISI Neighbors.dot key.txt; ISI Level Total Graph.dot key.txt

Here are the keys. They are actually off by 1 in many cases, since I just changed my new graphs to start numbering the edges at 1 rather than 0. If you want, I can change the keys to fit with the old graphs, or I can send you the newer graphs. In any case, the keys correspond with the slides in the following way:

ISI Level Total Graph - Slide 9

ENG3 ISI Neighbors - both files apply to slide 10

ENG1 to Dose - Slide 13

UZ3 ISI Neighbors - Slide 15

I can also send you all of my data, my software with instructions, or both if you would like.

Jeff

Hearing Identifier: HLW_YuccaMountain_Hold_EX
Email Number: 1157

Mail Envelope Properties (JAB1@nrc.gov20050819073220)

Subject: Presentation Keys
Sent Date: 8/19/2005 7:32:20 AM
Received Date: 8/19/2005 7:32:20 AM
From: Jeffrey Borowitz

Created By: JAB1@nrc.gov

Recipients:
"Bret Leslie" <Bret.Leslie@nrc.gov>
Tracking Status: None

Post Office:

Files	**Size**	**Date & Time**
MESSAGE	573	8/19/2005 7:32:20 AM
ENG1 to Dose.dot key.txt	1855	
UZ2 ISI Neighbors.dot key.txt	700	
ENG3 ISI Neighbors.dot key.txt	1115	
ENG3 ISI Neighbors.dot key.txt	672	
ISI Level Total Graph.dot key.txt	1855	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

Edge Label Key

1 alpha & Log_k & Seepage_Multiplier & WP_Length & Drift_Dispersivity & Invert_Transmissivity & Heat_Load & Thermal_Conductivity
2 Starting_Water & Various_Inputs & WP_Length & DS_Length & WP_Flux_Factor & pO2
3 General_Corrosion_Inputs & Stress_Corrosion_Inputs & MIC_Factor & nPremature_Failures & fraction_stainless_steel_clad_fuel
4 p_02 & DSNF_Degradation_Rate
5 UZ_Kd & Colloid_Conc & Fracture_Aperture & Water_Content & Effective_Permeability
6 Flow_Properties & SZ_Kd & GW_Usage
7 BDCF
8 Climate_State
9 Climate_State & Climate_State & Infiltration_Scenario & Infiltration_Scenario & Infiltration_Scenario & Infiltration_Scenario
10 Climate_State
11 Infiltration_Scenario & Infiltration_Scenario
12 Infiltration_Scenario
13 q_Perc & q_Perc & q_Perc & H & Nonlith_Fraction & T_Drift
14 Flow_Field
15 Nonlith_Fraction & Seepage_Flux & Seepage_Fraction & Seepage_Flux & DWC_Fraction & DWC_Flow & RH_Wp & T_wp & T_Invert & RH_Invert
16 T_wp & T_wp & RH_Wp & T_Invert & T_Invert & T_Invert & Saturation_in_Invert & Q_Invert & Q_Invert & Q_Invert & RH_WP
17 T_Dripshield & T_wp & RH_Wp
18 pH_Invert & IS_Invert & pH_Invert & IS_Invert & pCO2_Invert & pCO2_Invert & q_WP & Flow_Fraction & q_drip & q_drip & q_drip & q_WP & pH_Inpackage & pH_Inpackage & IS_InPackage & pCO2 & pH_Inpackage & IS_InPackage & CO3_Concentration
19 pCO2_Invert & pCO2_Invert & q_drip & q_drip & pH_Inpackage
20 nPatches_failed & nwp_failed & nwp_cracks & ndsPatches & T_sinceWPfailure
21 nwp_failed & nPatches_failed
22 nwp_failed & nwp_cracks
23 nwp_failed
24 Degradation_Rate & Fraction_Degraded & Solubility_WP & Solubility_Invert & Dripping_Environment
25 WP_Num
26 Matrix_Diffusion_Coefficient
27 dM_dT_UZ
28 GW_Concentration
29 Dose
30 dM_dT_EBS & F_Fracture

Edge Label Key

1 alpha & Log_k & Seepage_Multiplier & WP_Length & Drift_Dispersivity & Invert_Transmissivity & Heat_Load & Thermal_Conductivity
2 Climate_State & Climate_State & Infiltration_Scenario & Infiltration_Scenario & Infiltration_Scenario & Infiltration_Scenario
3 q_Perc & q_Perc & q_Perc & H & Nonlith_Fraction & T_Drift
4 Flow_Field
5 Nonlith_Fraction & Seepage_Flux & Seepage_Fraction & Seepage_Flux & DWC_Fraction & DWC_Flow & RH_Wp & T_wp & T_Invert & RH_Invert
6 T_wp & T_wp & RH_Wp & T_Invert & T_Invert & T_Invert & Saturation_in_Invert & Q_Invert & Q_Invert & Q_Invert & RH_WP
7 T_Dripshield & T_wp & RH_Wp

Edge Label Key

1 Corrosion_products_from_corroded_waste_packages_affect_near-field_chemistry & Corrosion_products_may_affect_chemistry_of_water_contacting_drip_shield__waste_package__and_waste_forms

2 Released_radionuclides_may_affect_chemistry_of_water_contacting_engineered_barriers_and_waste_forms

3 Drift_degradation_and_rockfall_may_affect_chemistry_of_water_contacting_engineered_barriers_and_waste_forms

4 Distribution_of_flow_affects_amount_of_water_contacting_engineered_barriers_and_wasteforms & Seepage_into_emplacement_drifts_affects_amount_of_water_contacting_engineered_barriers

5 Net_infiltration_is_ultimately_the_amount_of_water_reaching_the_repository_horizon

6 d

7 Near-field_chemistry_affects_waste_packages_and_drip_shield_corrosion_rates & Quantity_and_chemistry_of_water_contacting_engineered_barriers_affect_drip_shield_and_waste_package_corrosion

8 none_given

9 Parameters_such_as_pH_and_carbonate_concentration_of_water_contacting_the_waste_forms_play_important_roles_in_estimating_solubilities_and_release_rates

Edge Label Key

1 Starting_Water & Various_Inputs & WP_Length & DS_Length & WP_Flux_Factor & pO2
2 Nonlith_Fraction & Seepage_Flux & Seepage_Fraction & Seepage_Flux & DWC_Fraction & DWC_Flow & RH_Wp & T_wp & T_Invert & RH_Invert
3 pCO2_Invert & pCO2_Invert & q_drip & q_drip & pH_Inpackage
4 nPatches_failed & nwp_failed & nwp_cracks & ndsPatches & T_sinceWPfailure
5 pH_Invert & IS_Invert & pH_Invert & IS_Invert & pCO2_Invert & pCO2_Invert & q_WP & Flow_Fraction & q_drip & q_drip & q_drip & q_WP & pH_Inpackage & pH_Inpackage & IS_InPackage & pCO2 & pH_Inpackage & IS_InPackage & CO3_Concentration

Edge Label Key

1 alpha & Log_k & Seepage_Multiplier & WP_Length & Drift_Dispersivity & Invert_Transmissivity & Heat_Load & Thermal_Conductivity
2 Starting_Water & Various_Inputs & WP_Length & DS_Length & WP_Flux_Factor & pO2
3 General_Corrosion_Inputs & Stress_Corrosion_Inputs & MIC_Factor & nPremature_Failures & fraction_stainless_steel_clad_fuel
4 p_02 & DSNF_Degradation_Rate
5 UZ_Kd & Colloid_Conc & Fracture_Aperture & Water_Content & Effective_Permeability
6 Flow_Properties & SZ_Kd & GW_Usage
7 BDCF
8 Climate_State
9 Climate_State & Climate_State & Infiltration_Scenario & Infiltration_Scenario & Infiltration_Scenario & Infiltration_Scenario
10 Climate_State
11 Infiltration_Scenario & Infiltration_Scenario
12 Infiltration_Scenario
13 q_Perc & q_Perc & q_Perc & H & Nonlith_Fraction & T_Drift
14 Flow_Field
15 Nonlith_Fraction & Seepage_Flux & Seepage_Fraction & Seepage_Flux & DWC_Fraction & DWC_Flow & RH_Wp & T_wp & T_Invert & RH_Invert
16 T_wp & T_wp & RH_Wp & T_Invert & T_Invert & T_Invert & Saturation_in_Invert & Q_Invert & Q_Invert & Q_Invert & RH_WP
17 T_Dripshield & T_wp & RH_Wp
18 pH_Invert & IS_Invert & pH_Invert & IS_Invert & pCO2_Invert & pCO2_Invert & q_WP & Flow_Fraction & q_drip & q_drip & q_drip & q_WP & pH_Inpackage & pH_Inpackage & IS_InPackage & pCO2 & pH_Inpackage & IS_InPackage & CO3_Concentration
19 pCO2_Invert & pCO2_Invert & q_drip & q_drip & pH_Inpackage
20 nPatches_failed & nwp_failed & nwp_cracks & ndsPatches & T_sinceWPfailure
21 nwp_failed & nPatches_failed
22 nwp_failed & nwp_cracks
23 nwp_failed
24 Degradation_Rate & Fraction_Degraded & Solubility_WP & Solubility_Invert & Dripping_Environment
25 WP_Num
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28 GW_Concentration
29 Dose
30 dM_dT_EBS & F_Fracture