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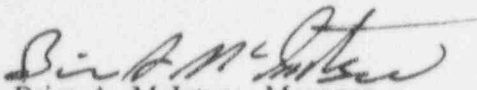
ATTENTION: T. R. QUAY

SUBJECT: **AP600 RTNSS FOCUSED PRA SENSITIVITY STUDY ELECTRONIC
COMPUTER FILES**

Dear Mr. Quay:

In response to the request of Mr. Michael Franovich, enclosed are the AP600 RTNSS focused PRA sensitivity study electronic computer files. The PRA files represent the RTNSS focused PRA sensitivity study submitted as part of Revision 4 of the AP600 PRA. The files being transmitted are described in Enclosure 1. Enclosure 2 is a 4mm data cartridge that contains the AP600 focused PRA sensitivity study model. A copy of the enclosures has been sent separately to Ms. Diane Jackson to be forwarded to Mr. Nathan Siu of INEL.

Please contact Cynthia Haag on (412) 374-4277 if you have any questions concerning this transmittal.


Brian A. McIntyre, Manager
Advanced Plant Safety and Licensing

Enclosures

cc: D. Jackson, NRC (1 copy enclosures)
M. Franovich, NRC (w/o enclosures)

0214H

300006

9510300254 951017
PDR ADOCK 05200003
A PDR

*4mm data Cartridge -
to: File Center
E004
1/1*

ENCLOSURE 1

AP600 FOCUSED PRA SENSITIVITY STUDY ELECTRONIC FILES

The following list indicates the location of the unix computer files requested which are stored on the submitted 4mm tapes.

Main Directory:

AP600-2A/RTNSS

Sub-Directories under AP600-2A:

- /power contains the electronic files for the AP600 Focused PRA Sensitivity Study evaluation of the internal initiating events during power operation.
- /shutdown contains the electronic files for the AP600 Focused PRA Sensitivity Study evaluation of the internal initiating events during shutdown modes of operation.

Under each of the above sub-directories are:

- /ft contains the master data file for the non-I&C systems fault trees (SIMON.DAT). Also contains sub-directories for each of the non-I&C systems' fault tree files (*.DAT, *.TXT, and *.CUT files) and basic event data identification files (EVENT.SIM) for each system.
- /ftic contains the I&C systems master data file (SIMON.DAT) and the basic event data identification file (EVENT.SIM). Also contains sub-directories for each of the systems supported by I&C that contain a subdirectory for each case with the fault tree files (*.DAT, and *.TXT files).
- /reduce contains all of the reduced system fault tree output files (*.WLK files).
- /cm contains the event tree input files (*.IN), event tree output files (*.WLK), and the final core damage output file (CMTOT.OUT).
- /pds contains the plant damage states input files (*.IN), the plant damage states output files (*.WLK), and the plant damage states' final output files (*.PDS).

It should be noted that in some cases, fault trees in addition to what is required to quantify the core damage frequency are included in the respective directories. To determine the fault trees necessary for quantification, consult the event tree input files in the /cm and /pds directories for a list of front-line system fault trees.

The directory structure is as follows:

AP600-2A/RTNSS/power
 AP600-2A/RTNSS/power/cm
 AP600-2A/RTNSS/power/ft
 AP600-2A/RTNSS/power/ft/acc
 AP600-2A/RTNSS/power/ft/ads
 AP600-2A/RTNSS/power/ft/cis
 AP600-2A/RTNSS/power/ft/cmt
 AP600-2A/RTNSS/power/ft/cvs
 AP600-2A/RTNSS/power/ft/ids
 AP600-2A/RTNSS/power/ft/irw
 AP600-2A/RTNSS/power/ft/pcs
 AP600-2A/RTNSS/power/ft/pms
 AP600-2A/RTNSS/power/ft/prh
 AP600-2A/RTNSS/power/ftic
 AP600-2A/RTNSS/power/ftic/ads
 AP600-2A/RTNSS/power/ftic/ads/ic11
 AP600-2A/RTNSS/power/ftic/ads/ic12
 AP600-2A/RTNSS/power/ftic/ads/ic13
 AP600-2A/RTNSS/power/ftic/ads/ic14
 AP600-2A/RTNSS/power/ftic/ads/ic15
 AP600-2A/RTNSS/power/ftic/ads/ic16
 AP600-2A/RTNSS/power/ftic/ads/ic17
 AP600-2A/RTNSS/power/ftic/ads/ic18
 AP600-2A/RTNSS/power/ftic/ads/ic19
 AP600-2A/RTNSS/power/ftic/ads/ic20
 AP600-2A/RTNSS/power/ftic/ads/ic41
 AP600-2A/RTNSS/power/ftic/ads/ic42
 AP600-2A/RTNSS/power/ftic/ads/ic43
 AP600-2A/RTNSS/power/ftic/ads/ic44
 AP600-2A/RTNSS/power/ftic/ads/ic45
 AP600-2A/RTNSS/power/ftic/ads/ic46
 AP600-2A/RTNSS/power/ftic/ads/ic47
 AP600-2A/RTNSS/power/ftic/ads/ic48
 AP600-2A/RTNSS/power/ftic/ads/ic49
 AP600-2A/RTNSS/power/ftic/ads/ic50
 AP600-2A/RTNSS/power/ftic/ads/ic63
 AP600-2A/RTNSS/power/ftic/ads/ic64
 AP600-2A/RTNSS/power/ftic/ads/ic65
 AP600-2A/RTNSS/power/ftic/ads/ic66
 AP600-2A/RTNSS/power/ftic/ads/ic67
 AP600-2A/RTNSS/power/ftic/ads/ic68
 AP600-2A/RTNSS/power/ftic/ads/ic69
 AP600-2A/RTNSS/power/ftic/ads/ic70
 AP600-2A/RTNSS/power/ftic/ads/ic71
 AP600-2A/RTNSS/power/ftic/ads/ic72
 AP600-2A/RTNSS/power/ftic/ads/ic73
 AP600-2A/RTNSS/power/ftic/ads/ic74
 AP600-2A/RTNSS/power/ftic/ads/ic75

+ Parent directory for at-power events
 ++ Core Damage Quantification directory
 ++ System fault tree sub-directory
 +++ Accumulator System fault trees
 +++ ADS system fault trees
 +++ Containment Isolation System fault trees
 +++ CMT System fault trees
 +++ CVCS fault trees (NOT USED)
 +++ Class 1E power system fault trees
 +++ Gravity Injection system fault trees
 +++ Passive Containment Cooling System fault trees
 +++ Special PMS system fault trees
 +++ Passive RHR system fault trees
 ++ I&C System fault tree sub-directory
 +++ ADS System I&C fault tree models:
 + Model IC11AB.WLK
 + Model IC12AB.WLK
 + Model IC21AB.WLK
 + Model IC22AB.WLK
 + Model IC31AB.WLK
 + Model IC32AB.WLK
 + Model IC41AB.WLK
 + Model IC42AB.WLK
 + Model IC43AB.WLK
 + Model IC44AB.WLK
 + Model IC11MB.WLK
 + Model IC12MB.WLK
 + Model IC21MB.WLK
 + Model IC22MB.WLK
 + Model IC31MB.WLK
 + Model IC32MB.WLK
 + Model IC41MB.WLK
 + Model IC42MB.WLK
 + Model IC43MB.WLK
 + Model IC44MB.WLK
 + Model IC41AL.WLK
 + Model IC42AL.WLK
 + Model IC43AL.WLK
 + Model IC44AL.WLK
 + Model IC41ML.WLK
 + Model IC42ML.WLK
 + Model IC43ML.WLK
 + Model IC44ML.WLK
 + Model IC41MW.WLK
 + Model IC42MW.WLK
 + Model IC43MW.WLK
 + Model IC44MW.WLK
 + Model IC41MQ.WLK

AP600-2A/RTNSS/power/ftic/ads/ic76
 AP600-2A/RTNSS/power/ftic/ads/ic77
 AP600-2A/RTNSS/power/ftic/ads/ic78
 AP600-2A/RTNSS/power/ftic/ads/ic79
 AP600-2A/RTNSS/power/ftic/ads/ic80
 AP600-2A/RTNSS/power/ftic/ads/ic81
 AP600-2A/RTNSS/power/ftic/ads/ic82
 AP600-2A/RTNSS/power/ftic/esf
 AP600-2A/RTNSS/power/ftic/esf/esfauto
 AP600-2A/RTNSS/power/ftic/esf/esfmanu
 AP600-2A/RTNSS/power/ftic/irw
 AP600-2A/RTNSS/power/ftic/irw/ic09
 AP600-2A/RTNSS/power/ftic/irw/ic10
 AP600-2A/RTNSS/power/ftic/irw/ic11
 AP600-2A/RTNSS/power/ftic/irw/ic12
 AP600-2A/RTNSS/power/ftic/irw/ic13
 AP600-2A/RTNSS/power/ftic/irw/ic14
 AP600-2A/RTNSS/power/ftic/irw/ic15
 AP600-2A/RTNSS/power/ftic/irw/ic16
 AP600-2A/RTNSS/power/ftic/pcs
 AP600-2A/RTNSS/power/ftic/pcs/ic01
 AP600-2A/RTNSS/power/ftic/pcs/ic02
 AP600-2A/RTNSS/power/ftic/rpt
 AP600-2A/RTNSS/power/ftic/rpt/ic01
 AP600-2A/RTNSS/power/ftic/rpt/ic02
 AP600-2A/RTNSS/power/ftic/rpt/ic03
 AP600-2A/RTNSS/power/ftic/rpt/ic04
 AP600-2A/RTNSS/power/ftic/rpt/ic05
 AP600-2A/RTNSS/power/ftic/rpt/ic06
 AP600-2A/RTNSS/power/ftic/rpt/ic07
 AP600-2A/RTNSS/power/ftic/rpt/ic08
 AP600-2A/RTNSS/power/ftic/sgs
 AP600-2A/RTNSS/power/ftic/sgs/ic01
 AP600-2A/RTNSS/power/ftic/sgs/ic02
 AP600-2A/RTNSS/power/ftic/sgs/ic03
 AP600-2A/RTNSS/power/ftic/sgs/ic04
 AP600-2A/RTNSS/power/ftic/sgs/ic05
 AP600-2A/RTNSS/power/ftic/sgs/ic06
 AP600-2A/RTNSS/power/ftic/sgs/ic07
 AP600-2A/RTNSS/power/ftic/sgs/ic08
 AP600-2A/RTNSS/power/pds
 AP600-2A/RTNSS/power/reduce
 AP600-2A/RTNSS/shutdown
 AP600-2A/RTNSS/shutdown/cm
 AP600-2A/RTNSS/shutdown/ft
 AP600-2A/RTNSS/shutdown/ft/ads
 AP600-2A/RTNSS/shutdown/ft/cis
 AP600-2A/RTNSS/shutdown/ft/cmt
 AP600-2A/RTNSS/shutdown/ft/ids
 AP600-2A/RTNSS/shutdown/ft/irw

+ Model IC42MQ.WLK
 + Model IC43MQ.WLK
 + Model IC44MQ.WLK
 + Model IC41MT.WLK
 + Model IC42MT.WLK
 + Model IC43MT.WLK
 + Model IC44MT.WLK
 + + + ESF Cabinet I&C fault trees
 + Automatic Actuation Case
 + Manual Actuation Case
 + + + Gravity Injection System fault trees
 + Model IRW-IC9.WLK
 + Model IRW-IC10.WLK
 + Model IRW-IC11.WLK
 + Model IRW-IC12.WLK
 + Model IRW-IC13.WLK
 + Model IRW-IC14.WLK
 + Model IRW-IC15.WLK
 + Model IRW-IC16.WLK
 + + + Passive Cont. Cooling System I&C fault trees
 + Model PCS-IC1.WLK
 + Model PCS-IC2.WLK
 + + + Reactor Coolant Pump Trip fault trees
 + Model RPT-IC01.WLK
 + Model RPT-IC02
 + Model RPT-IC03
 + Model RPT-IC04
 + Model RPT-IC05
 + Model RPT-IC06
 + Model RPT-IC07
 + Model RPT-IC08
 + + + Steam Generator System fault trees
 + Model SGS-IC1
 + Model SGS-IC2
 + Model SGS-IC3
 + Model SGS-IC4
 + Model SGS-IC5
 + Model SGS-IC6
 + Model SGS-IC7
 + Model SGS-IC8
 + + + Plant Damage States Analysis trees
 + + + fault tree Reduction directory
 + Shutdown Modes Analysis sub-directory
 + + Core Damage Frequency Quantification directory
 + + System fault tree Sub-directory
 + + + ADS System fault trees
 + + + Containment Isolation System fault trees
 + + + CMT System fault trees
 + + + Class 1E Power System fault trees
 + + + Gravity Injection System fault trees

AP600-2A/RTNSS/shutdown/ft/pct	+++ Passive Containment Cooling System fault trees
AP600-2A/RTNSS/shutdown/ft/prh	+++ Passive RHR System fault trees
AP600-2A/RTNSS/shutdown/ftic	++ I&C System fault trees
AP600-2A/RTNSS/shutdown/ftic/ads	+++ ADS System I&C support fault trees
AP600-2A/RTNSS/shutdown/ftic/ads/ic11ms	+ Model IC11MS
AP600-2A/RTNSS/shutdown/ftic/ads/ic12ms	+ Model IC12MS
AP600-2A/RTNSS/shutdown/ftic/ads/ic21aps	+ Model IC21APS
AP600-2A/RTNSS/shutdown/ftic/ads/ic21as	+ Model IC21AS
AP600-2A/RTNSS/shutdown/ftic/ads/ic21mps	+ Model IC21MPS
AP600-2A/RTNSS/shutdown/ftic/ads/ic21ms	+ Model IC21MS
AP600-2A/RTNSS/shutdown/ftic/ads/ic22aps	+ Model IC22APS
AP600-2A/RTNSS/shutdown/ftic/ads/ic22as	+ Model IC22AS
AP600-2A/RTNSS/shutdown/ftic/ads/ic22mps	+ Model IC22MPS
AP600-2A/RTNSS/shutdown/ftic/ads/ic22ms	+ Model IC22MS
AP600-2A/RTNSS/shutdown/ftic/ads/ic31aps	+ Model IC31APS
AP600-2A/RTNSS/shutdown/ftic/ads/ic31as	+ Model IC31AS
AP600-2A/RTNSS/shutdown/ftic/ads/ic31mps	+ Model IC31MPS
AP600-2A/RTNSS/shutdown/ftic/ads/ic31ms	+ Model IC31MS
AP600-2A/RTNSS/shutdown/ftic/ads/ic32aps	+ Model IC32APS
AP600-2A/RTNSS/shutdown/ftic/ads/ic32as	+ Model IC32AS
AP600-2A/RTNSS/shutdown/ftic/ads/ic32mps	+ Model IC32MPS
AP600-2A/RTNSS/shutdown/ftic/ads/ic32ms	+ Model IC32MS
AP600-2A/RTNSS/shutdown/ftic/ads/ic41aps	+ Model IC41APS
AP600-2A/RTNSS/shutdown/ftic/ads/ic41as	+ Model IC41AS
AP600-2A/RTNSS/shutdown/ftic/ads/ic41mps	+ Model IC41MPS
AP600-2A/RTNSS/shutdown/ftic/ads/ic41mqs	+ Model IC41MQS
AP600-2A/RTNSS/shutdown/ftic/ads/ic41ms	+ Model IC41MS
AP600-2A/RTNSS/shutdown/ftic/ads/ic41mts	+ Model IC41MTS
AP600-2A/RTNSS/shutdown/ftic/ads/ic42aps	+ Model IC42APS
AP600-2A/RTNSS/shutdown/ftic/ads/ic42as	+ Model IC42AS
AP600-2A/RTNSS/shutdown/ftic/ads/ic42mps	+ Model IC42MPS
AP600-2A/RTNSS/shutdown/ftic/ads/ic42mqs	+ Model IC42MQS
AP600-2A/RTNSS/shutdown/ftic/ads/ic42ms	+ Model IC42MS
AP600-2A/RTNSS/shutdown/ftic/ads/ic42mts	+ Model IC42MTS
AP600-2A/RTNSS/shutdown/ftic/ads/ic43aps	+ Model IC43APS
AP600-2A/RTNSS/shutdown/ftic/ads/ic43as	+ Model IC43AS
AP600-2A/RTNSS/shutdown/ftic/ads/ic43mps	+ Model IC43MPS
AP600-2A/RTNSS/shutdown/ftic/ads/ic43mqs	+ Model IC43MQS
AP600-2A/RTNSS/shutdown/ftic/ads/ic43ms	+ Model IC43MS
AP600-2A/RTNSS/shutdown/ftic/ads/ic43mts	+ Model IC43MTS
AP600-2A/RTNSS/shutdown/ftic/ads/ic44aps	+ Model IC44APS
AP600-2A/RTNSS/shutdown/ftic/ads/ic44as	+ Model IC44AS
AP600-2A/RTNSS/shutdown/ftic/ads/ic44mps	+ Model IC44MPS
AP600-2A/RTNSS/shutdown/ftic/ads/ic44mqs	+ Model IC44MQS
AP600-2A/RTNSS/shutdown/ftic/ads/ic44ms	+ Model IC44MS
AP600-2A/RTNSS/shutdown/ftic/ads/ic44mts	+ Model IC44MTS
AP600-2A/RTNSS/shutdown/ftic/cis	+++ Containment Isolation I&C support
AP600-2A/RTNSS/shutdown/ftic/cis/ic10s	+ Model CISIC10S
AP600-2A/RTNSS/shutdown/ftic/cis/ic11s	+ Model CISIC11S
AP600-2A/RTNSS/shutdown/ftic/cis/ic12s	+ Model CISIC12S

AP600-2A/RTNSS/shutdown/ftic/cis/ic1s	+ Model CIS-IC1S
AP600-2A/RTNSS/shutdown/ftic/cis/ic2s	+ Model CIS-IC2S
AP600-2A/RTNSS/shutdown/ftic/cis/ic3s	+ Model CIS-IC3S
AP600-2A/RTNSS/shutdown/ftic/cis/ic4s	+ Model CIS-IC4S
AP600-2A/RTNSS/shutdown/ftic/cis/ic5s	+ Model CIS-IC5S
AP600-2A/RTNSS/shutdown/ftic/cis/ic6s	+ Model CIS-IC6S
AP600-2A/RTNSS/shutdown/ftic/cis/ic7s	+ Model CIS-IC7S
AP600-2A/RTNSS/shutdown/ftic/cis/ic8s	+ Model CIS-IC8S
AP600-2A/RTNSS/shutdown/ftic/cis/ic9s	+ Model CIS-IC9S
AP600-2A/RTNSS/shutdown/ftic/cmt	+++ CMT System I&C support trees
AP600-2A/RTNSS/shutdown/ftic/cmt/ic1ps	+ Model CMTIC1PS
AP600-2A/RTNSS/shutdown/ftic/cmt/ic1s	+ Model CMT-IC1S
AP600-2A/RTNSS/shutdown/ftic/cmt/ic2ps	+ Model CMTIC2PS
AP600-2A/RTNSS/shutdown/ftic/cmt/ic2s	+ Model CMT-IC2S
AP600-2A/RTNSS/shutdown/ftic/cmt/ic3ps	+ Model CMTIC3PS
AP600-2A/RTNSS/shutdown/ftic/cmt/ic3s	+ Model CMT-IC3S
AP600-2A/RTNSS/shutdown/ftic/cmt/ic4ps	+ Model CMTIC4PS
AP600-2A/RTNSS/shutdown/ftic/cmt/ic4s	+ Model CMT-IC4S
AP600-2A/RTNSS/shutdown/ftic/esf	+++ ESF Cabinet fault trees
AP600-2A/RTNSS/shutdown/ftic/esf/esfauto	+ Automatic Actuation models
AP600-2A/RTNSS/shutdown/ftic/esf/esfmanu	+ Manual Actuation models
AP600-2A/RTNSS/shutdown/ftic/irw	+++ Gravity Injection I&C support trees
AP600-2A/RTNSS/shutdown/ftic/irw/ic13s	+ Model IRWIC13S
AP600-2A/RTNSS/shutdown/ftic/irw/ic14s	+ Model IRWIC14S
AP600-2A/RTNSS/shutdown/ftic/irw/ic15s	+ Model IRWIC15S
AP600-2A/RTNSS/shutdown/ftic/irw/ic16s	+ Model IRWIC16S
AP600-2A/RTNSS/shutdown/ftic/irw/ic1ps	+ Model IRWIC1PS
AP600-2A/RTNSS/shutdown/ftic/irw/ic1s	+ Model IRW-IC1S
AP600-2A/RTNSS/shutdown/ftic/irw/ic2ps	+ Model IRWIC2PS
AP600-2A/RTNSS/shutdown/ftic/irw/ic2s	+ Model IRW-IC2S
AP600-2A/RTNSS/shutdown/ftic/irw/ic3s	+ Model IRW-IC3S
AP600-2A/RTNSS/shutdown/ftic/irw/ic4s	+ Model IRW-IC4S
AP600-2A/RTNSS/shutdown/ftic/pcs	+++ Passive Cont. Cooling I&C support
AP600-2A/RTNSS/shutdown/ftic/pcs/ic1s	+ Model PCS-IC1S
AP600-2A/RTNSS/shutdown/ftic/pcs/ic2s	+ Model PCS-IC2S
AP600-2A/RTNSS/shutdown/ftic/rhr	+++ Passive RHR I&C support trees
AP600-2A/RTNSS/shutdown/ftic/rhr/ic1ps	+ Model RHRIC1PS
AP600-2A/RTNSS/shutdown/ftic/rhr/ic1s	+ Model RHR-IC1S
AP600-2A/RTNSS/shutdown/ftic/rhr/ic2ps	+ Model RHRIC2PS
AP600-2A/RTNSS/shutdown/ftic/rhr/ic2s	+ Model RHR-IC2S
AP600-2A/RTNSS/shutdown/ftic/rns	+++ Gravity Injection (Other Injection Path)
AP600-2A/RTNSS/shutdown/ftic/rns/ic6s	+ Model RNS-IC6S
AP600-2A/RTNSS/shutdown/pds	++ Plant Damage States Quantification directory
AP600-2A/RTNSS/shutdown/reduce	++ System fault tree Reduction directory