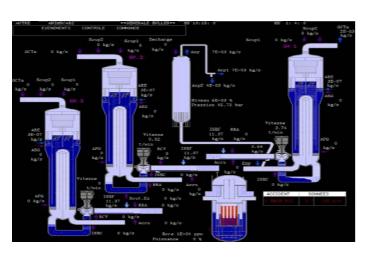


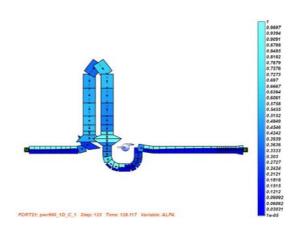
CATHARE Users' CLUB

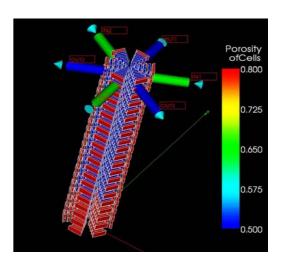
GRENOBLE - France, June 3, 4 and 5 2009

The CUC is the opportunity:

- For all the users : to show their works on various applications and to share experience on the CATHARE nuclear reactor safety code
- For the CATHARE team: to present features and functionalities of the new version of the CATHARE code







Informations: CEA/DEN/DER/SSTH, gilles.lavialle@cea.fr











Wednesday June 3rd Overview of the CATHARE V2.5 new features CATHARE use by foreign organisations

9:00	Registration		
9:30	Welcome		
9:45	Introduction of the club	15'	CEA
10:00	CATHARE team activities on CATHARE V2.5 code	30'	CEA
10:30	Break		
11:00	Use of CATHARE at ENEA		
	o Validation of CATHARE V2.5 against the PERSEO tests	30'	ENEA-Italia
11:30	Use of CATHARE at University of PISA	30'	PISA-Italia
	 Simulations of the OECD/NEA PSB-VVER Project Tests 		
	o Uncertainty Method and Applications with CATHARE2 (BEMUSE Project)		
	<u> </u>		
12.00	Lunch		









CATHARE 2
V25 series 14:00
14:30
14.50

Wednesday June 3rd CATHARE use by foreign organisations

14:00	Use of CATHARE at VUJE o Validation of CATHARE V2.5 on Oberhausen helium (EVO) loop	30' <u>p</u>	VUJE-Slovakia
14:30	 Use of CATHARE at INR Calculation of B9401 Test in the RD-14M Facility with CATHARE 2 Air Ingress Applications with ICARE/CATHARE 	30'	INR-Romania
15:00	Use of CATHARE at BEL-V	30'	BEL-V-Belgium
15:30	Break		
16:00	Use of CATHARE at NPIC o Validation of CATHARE code against Bethsy test 3.4B".	30'	NPIC-China
16:30	Use of CATHARE at KFKI-AEKI	30'	KFKI-Hungary
17:00	Use of CATHARE at INRNE o CATHARE multi-1D modeling of single-phase vessel mixing in VVER-1000 for RIA analysis	30'	INRNE-Bulgaria
17:30	Adjourn		











Thursday June 4th

CATHARE use by foreign organisations and partners

9:00	Use of CATHARE at KURCHATOV institute o ICARE/CATHARE V2 simulation of a VVER-1000 large break LOCA scenario	30'	KI-Russia
9:30	Use of CATHARE at BARC o Simulation of Accident Scenarios for Indian Reactors using CATHARE/SUNSET	30'	BARC-India
10:00	Break		
10:30	Use of CATHARE at AREVA-NP	45'	AREVA-NP
11:15	Use of CATHARE at IRSN	45'	IRSN
12.00	Lunch		











Thursday June 4th

CATHARE use by partners GUITHARE

14:00	Use of CATHARE at AREVA-TA	45'	AREVA-TA
14:45	Use of CATHARE at EDF o Use of Cathare in safety studies o Use of Cathare within simulation tools	45'	EDF
15.30	Break		
16:00	Use of CATHARE at CEA o Uncertainty analysis with CATHARE o Coupling with CATHARE	30'	CEA/SSTH
	 Existing and under development coupling strategies with CATHARE 	15'	CEA/SSTH
	✓ HEMERA: A Highly Evolutionary Method for Effective Reactor Analysis	15'	CEA/SERMA
17:00	Adjourn		

dinner at the restaurant 55 (http://www.restaurantle55.com)



19h30









Friday June 5th

CATHARE 2 V2.5_2: A single version for various applications

9:00	Demonstration of the GUITHARE graphic user interface	30'	CEA
9:30	CATHARE 2 V2.5_2: a single version and various concepts	20'	CEA/SSTH
	o 9:50 CATHARE application for Gas Cooled reactor ✓ CATHARE2 use as a support to the GFR design	15'	CEA/SESI
	✓ <u>Incidental and accidental transients of the coupling of a VHTR</u> with a hydrogen plant	15'	CEA/SESI
	o 10:20 CATHARE application for Supercritical light water reactor	15'	CEA/SESI
10.35	Break		

10:50 CATHARE application for Sodium Fast-Breeder Reactor







20'



CEA/SESI



Friday June 5th CATHARE 3 Conclusions of the CUC

11:10	CATHARE-3: A new system code for thermal-hydraulics in the	
	context of the NEPTUNE project	30'

11:40 Conclusions of the club 20' CEA

- o Use of the code, requests of users, etc.
- o Futures versions of CATHARE 2, GUITHARE, CATHARE3
- o Discussion, remarks

12.00 Lunch 14.00 Adjourn









CEA