Project list 2010

Research area & Project name	Acronym	Manager & email	Organisation
1.			
Safety management and organisatorial learning	MANOR	Teemu Reiman teemu.reiman@vtt.fi	VTT
Expert work in safety critical environment	SAFEX	Krista Pahkin krista.pahkin@ttl.fi	Aalto, TTL
2.			
Model-based safety evaluation of automation systems	MODSAFE	Janne Valkonen janne.valkonen@vtt.fi	VTT, Aalto
Certification facilities for software	CERFAS	Hannu Harju hannu.harju@vtt.fi	VTT, TUT
Operator practices and human-system interfaces in computer-based control stations	OPRACTICE	Jari Laarni jari.laarni@vtt.fi	VTT
Requirements engineering in nuclear power plant automation	VAHAYA	Tomi Männistö tomi.mannisto@hut.fi	Aalto, VTT
3.			
Development and validation of fuel performance codes	POKEVA	Seppo Kelppe seppo.kelppe@vtt.fi	VTT
Tridimensional core transient analysis methods	TRICOT	Elina Syrjälahti elina.syrjalahti@vtt.fi	VTT
Total reactor physics analysis system	TOPAS	Petri Kotiluoto petri.kotiluoto@vtt.fi	VTT
4.			
Numerical modelling of condensation pool	NUMPOOL	Timo Pättikangas timo.pattikangas@vtt.fi	VTT

Improved thermal hydraulic analyses of nuclear reactor and containment	THARE	Ismo Karppinen ismo.karppinen@vtt.fi	VTT
CDF modelling of NPP horizontal and vertical steam generators	SGEN	Timo Pättikangas timo.pattikangas@vtt.fi	VTT
Improvement of PACTEL facility simulation environment	PACSIM	Juhani Vihavainen juhani.vihavainen@lut.fi	LUT
Condensation experiments with PPOOLEX facility	CONDEX	Markku Puustinen markku.puustinen@lut.fi	LUT
Passive safety system simulation	PASSIMU	Heikki Purhonen heikki.purhonen@lut.fi	LUT
OpenFOAM CFD-solver for nuclear safety related flow simulations	NUFOAM	Tellervo Brandt tellervo.brandt@fortum.com	Fortum
5.			

Release of radioactive materials from a degrading core	RADECO	Tommi Kekki tommi.kekki@vtt.fi	VTT
Primary circuit chemistry of fission products	CHEMPC	Teemu Kärkelä teemu.karkela@vtt.fi	VTT
Core melt stabilization	COMESTA	Tuomo Sevón tuomo.sevon@vtt.fi	VTT
Hydrogen combustion risk and core debris coolability	HYBCIS2	Eveliina Takasuo eveliina.takasuo@vtt.fi	VTT
6.			
Risk-Informed Inspections of Piping	PURISTA	Kaisa Simola kaisa.simola@vtt.fi	VTT
Fatigue endurance of critical equipment	FATE	Jussi Solin jussi.solin@vtt.fi	VTT
Water chemistry and oxidation in the primary circuit	WATCHEM	Timo Saario timo.saario@vtt.fi	VTT, UTCM (Bulgaria), BARC (India)
Monitoring of the structural integrity of reactor circuit	RAKEMON	Ari Koskinen ari.koskinen@vtt.fi	VTT
Fracture assessment of reactor circuit	FRAS	Päivi Karjalainen-Roikonen paivi.karjalainen-roikonen@vtt.fi	VTT

Influence of material, environment and strain rate on environmentally assisted cracking of austenitic nuclear materials	DEFSPEED	Ulla Ehrnstén ulla.ehrnsten@vtt.fi	VTT
Renewal of active materials research infrastructure	AKTUS	Seppo Tähtinen seppo.tahtinen@vtt.fi	VTT
7.			
Service life management system of concrete structures in nuclear power plants	SERVICEMAN	Erkki Vesikari erkki.vesikari@vtt.fi	VTT
IMPACT2010	IMPACT	Ilkka Hakola ilkka.hakola@vtt.fi	VTT, partners
Structures under soft impact	SUSI	Arja Saarenheimo arja.saarenheimo@vtt.fi	VTT, TUT, Aalto
8.			
Challenges in risk-informed safety management	CHARISMA	Ilkka Karanta ilkka.karanta@vtt.fi	VTT
Implementation of quantitative fire risk assessment in PSA	FIRAS	Simo Hostikka simo.hostikka@vtt.fi	VTT
Extreme weather and nuclear power plants	EXWE	Kirsti Jylhä kirsti.jylha@fmi.fi	FMI