ISTC/STCU projects recommended by the ‘Contact Expert Group on Severe Accidents Management (CEG-SAM)

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Status [1]: registered, processed by secretariat; Status [2]: submitted to parties for board decision; Status [3]: accepted without funding; Status [5]: approved for funding, project agreement under preparation; Status [6]: project underway; Status [8]: project completed

| **Project**  **[status]** | **Short**  **project title**  **(acronym)** | **Leading**  **Institute** | **Financing**  **Parties** | **CEG-SAM**  **advices** | **Start**  **Duration** | **CEG-SAM project**  **collaborators** | **CEG-SAM project**  **monitors** | **Links with**  **current Euratom**  **co-sponsored projects** | **Links with**  **other current research**  **programmes** |
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| **ISTC**  **# 833.2**  [8] | Corium Interaction with Reactor Vessel Steel  (METCOR-2) | NITI  (Sosnovy Bor) | EU:  410000€ | A-01  (Jun.2002) | June 2003  3.5 years  (> Dec. 2006) | CEA  FANP  FORTUM  FZK  FZD  IRSN  JRC-ITU  USA |  | EC-SARNET  - LATVES | OECD-MASCA |
| **ISTC**  **# 1950.2**  [8] | Phase Diagrams for Corium (CORPHAD-2) | NITI  (Sosnovy Bor) | EU:  640000€ | A-04  (Oct.2002) | Dec. 2003  3.5 years  (> June 2007) | CEA  FANP  FZK  IRSN  JRC-ITU  USA |  | PLINIUS  EC-SARNET | OECD-MASCA |
| **ISTC**  **# 1648.2**  [6] | Post-Crash Fuel Reflood  (VVER-QUENCH) | RIIAR (Dimitrovgrad) | EU:  459000€ | A-02  (Oct. 2002)  A-05  (Feb.2003) | June 2004  3.5 years  (> Dec. 2007) | CEA  FZK  IRSN  JRC-ITU |  | PHEBUS-FP  LACOMERA  - QUENCH  EC-SARNET  - EARLY |  |
| **ISTC**  **# 2936**  [8] | Reactor Core Melting | NSI - IBRAE (Moscow) | EU: 112 k€  KR: 60 k$ | A-06  (Nov.2003) | Aug. 2004  3 years  (> Aug. 2007) | FZK  FZD  IRSN  JRC-ITU  KAERI |  | PHEBUS-FP  LACOMERA  - LIVE  EC-SARNET  - EARLY, LATVES |  |

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| **ISTC**  **# 2916**  [8] | Nuclear Fuel Behaviour during Chernobyl Accident  (CHESS-1) | Kurchatov (Moscow) | EU: 202 k€  CA: 150 k$ | A-07  (Feb.2004) | Feb. 2005  2,5 years  (> Aug. 2007) | AECL  CEA  GRS  FZK  IRSN  JRC-ITU |  | EC-SARNET  - EXCORE | OECD-MCCI |

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| **ISTC**  **# 3194**  [8] | Fuel Assembly Tests  (PARAMETER  SF1 + SF2) | LUCH  (Podolsk) | EU:  300752€ | A-081  (March 2005) | July 2005  2 years  (> July 2007) | AEKI  CEA  EDF  FZK  GRS  IRSN  JRC-ITU |  | EC-SARNET  - ASTEC  - QUENCH |  |
| **ISTC**  **# K-1265**  [6] | Corium Melt Retention in RPV (INVECOR) | NNC RK  (Kazakhstan) | EU:  644628€ | A-09  (June 2005) | May 2006  3 years  (> May 2009) | CEA  FZK  FZD  IRSN  JRC-ITU  Univ. PISA |  | EC-SARNET  - ASTEC  - LIVE |  |
| **ISTC**  **# 3345**  [8] | Ex-Vessel Source Term Analysis  (EVAN)  Phase 1 | SPAEP  (St.Petersburg) | EU:  350000€ | A-10  (Sept. 2005)  Phase 1 | January 2007  1 year  (> Jan. 2008) | CEA  CIEMAT  GRS  IRSN  PSI  VTT |  | EC-SARNET  - CORIUM  - SOURCE TERM |  |

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| **ISTC**  **# 3592**  [6] | Corium Interaction with Reactor Vessel Steel  (METCOR-P) | NITI  (Sosnovy Bor) | EU:  421068€ | A-11  (Oct. 2006) | April 2007  3 years  (> April  2010) | AREVA NP  CEA  FORTUM  FZD  FZK  IRSN  JRC-ITU |  | EC-SARNET |  |
| **ISTC**  **# 3690**  [6] | Fuel Assembly Tests  (PARAMETER  SF3 + SF4) | LUCH  (Podolsk) | EU:  447094€ | A-15  (Sept. 2007) | December  2007  2 years  (> Dec.  2009) | AEKI/KFKI  FZK  GRS  INRNE  JRC-ITU  PSI |  | EC-SARNET  - ASTEC  - QUENCH |  |
| **ISTC**  **# 3702**  [3] | Long-term Corium Behaviour after the Chernobyl Accident  (CHESS-2) | RRC-Kurchatov (Moscow) | requested  345000  US$ | A-13  (May 2007) | 2.5 years | CEA  FZK  GRS  IRSN  JRC-ITU  AECL, Can. | coupled  with  ISTC  #4207 | EC-SARNET  - EXCORE | OECD-MCCI |
| **ISTC**  **#3635**  [6] | RPV Behaviour in Severe Accidents | MPEI  (Moscow) | EU:  429055€ | A-12  (March 2007) | September  2007  3 years  (> Sept.  2010) | CEA  GRS  FZD  FZK  JRC-ITU  Japan RIT,Sweden  USA |  | EC-SARNET  -ASTEC |  |

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| **STCU**  **# 4207**  [5] | Chernobyl Shelter  (Long time behavior of Chernobyl fuel) | UIAR  (Ukraine)  ChNPP | Canada:  300000  US$ | A-14  (May 2007) | 2.5 years | AECL Can.  CEA  FZK  GRS  IRSN  JRC-ITU |  | EC-SARNET  -CORIUM  -SOURCE TERM |  |
| **ISTC**  **# 3813**  [6] | Phase Relations in Corium  (PRECOS) | NITI  (Sosnovy Bor) | EU:  634000€ | A-16  (Sept. 2007) | June 2008  3 years  (> June  2011) | AREVA  CEA  FZK  IRSN  JRC-ITU |  | EC-SARNET  -CORIUM |  |
| **ISTC**  **# 3609**  [3] | Flow Pulsation on Burnout in RPV  (EXPULS)  approved without funding;  withdrawn, 08-2008 | NITI  (Sosnovy Bor) | 184000  US$ | A-17  (Oct. 2007) | 2 years | FORTUM  KAERI |  | EC-SARNET |  |
| **ISTC**  **# 3831**  [5] | Large-scale Installation for Heating and Retention of Corium (phase 1) | RFNC-VNIIEF  (Sarov) | EU:  61535€ | (Oct. 2007) | 6 months | CEA  EDF  FZK  JRC-ITU |  | EC-SARNET  -CORIUM |  |

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| **Project**  **[status]** | **Short**  **project title**  **(acronym)** | **Leading**  **Institute** | **Financing**  **Parties** | **CEG-SAM**  **advices** | **Start**  **Duration** | **CEG-SAM project**  **collaborators** | **CEG-SAM project**  **monitors** | **Links with**  **current Euratom**  **co-sponsored projects** | **Links with**  **other current research**  **programmes** |
| **ISTC**  **# 3876**  [6] | Thermo-hydraulics of U-Zr-O molten pool under oxidiz. conditions  (THOMAS) | NSI – IBRAE  (Moscow) | EU:  196850€ | A-19  (May 2008) | Dec. 2008  3 years  (> Dec.  2011) | CEA  FZK  IRSN  IVS Trnava  JRC-ITU |  | EC-SARNET  -CORIUM |  |
| **ISTC**  **# 3919**  [2] | Experiments on the release of fission products  (VERONIKA) | RIIAR  (Dimitrovgrad) | requested  960000  US$ | A-18  (Sept. 2007) | 5.5 years | AEKI/KFKI  GRS  FZK  IRSN  JRC-ITU |  | EC-SARNET |  |
| **STCU**  **# 4758**  [1] | Characterization of hidden fuel containing clusters in the ChNPP | ISF NPP  (Kiev) | requested  199000  US$ |  | 2.5 years | CEA  GRS  JRC-ITU |  |  |  |
| **ISTC**  **# 3936**  [2] | Fuel Assembly Tests with B4C  (PARAMETER  SF5 + SF6) | LUCH  (Podolsk) | requested  600000  US$ |  | 2 years | CEA  AEKI/KFKI  EdF  FZK  GRS  INRNE  JRC-ITU  PSI |  | EC-SARNET  - QUENCH |  |