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|  |  INTERNATIONALEUROPEAN COMMISSION SCIENCE AND DIRECTORATE-GENERAL 'Research' TECHNOLOGY CENTER |   |

**CONTACT EXPERT GROUP on CORIUM MANAGEMENT (CEG-CM)**

*To:* ISTC / D.Gambier (EC RTD-05) *Advice no.:* A-05

*Project code:* # 1648 *Date:* 12th February 2003

*Signatures:* A.Zurita (Chairman) and P.Hofmann (Secretary)

*Linked meeting:*  - 3rd CEG-CM meeting. Moscow, 11-12 February 2003.

*Attending members:* - Adroguer (IRSN); Altstadt (FZR); Azarian (FANP); Bottomley (JRC/ITU); Cognet (CEA/DEN/DSNI); Stuckert, Tromm (FZK); Unger (RUB)

*Copies:*  - CEG-CM members; Bellemin (EC RTD-05); Forsström (EC RTD-J.4); Tocheny (ISTC, Moscow)

\* Subject: Proposal of “Examination of VVER Fuel Behaviour under Severe Accident Conditions. Quench Stage ” -- ISTC Project # 1648

\* EU Collaborators: - FZK and IRSN.

 - Confirmation of new collaborators (CEA and EDF) is on going.

\* Documents: Work Plan of ISTC project #1648. “Examination of VVER Fuel Behavior under Severe Accident Conditions. Quench Stage”. Revised parts of work plan. Version December 2002. State Scientific Center, “Research Institute of Atomic Reactors”, Dimitrovgrad-10

\* Advice: **EU funding recommended (priority 1)**

\* Justification: - The group strongly supports the execution of this project, mainly aimed at investigating physico-chemical effects of fast cooling (quenching) of high burn-up VVER fuel rod segments (project stage 1) and of an unirradiated VVER fuel element bundle (project stage 2) from high temperatures on fuel rod degradation. Of particular interest is the impact of core reflood conditions on the hydrogen production and release of gaseous fission products.

 - Previous recommendations have been fulfilled.

\* Recommendations: No recommendations.

\* Comments: - EU funding was already recommended (see advice CEG-CM / A-02).

- This project is linked to various current EU projects, i.e. EURSAFE, COLOSS, ENTHALPY and LACOMERA, and Phébus FP Programme.

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| Dissemination level : REPU: publicRE: restricted to EC, CEG-CM members, ISTC and CIS beneficiariesCO: confidential, only for EC, CEG-CM members and ISTC |

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February 2003 CEG-CM / A-05