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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-04

Project code: # 1950.2 Date: 2nd October 2002

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

Copies: - Adroguer (IRSN); Altstadt (FZR); Azarian, Fischer (FANP); Bottomley (JRC/ITU); Cognet (CEA/DEN/DSNI); Kymäläinen (Fortum); Marguet (EDF); Miassoedov, Stuckert, Tromm (FZK); Oriolo (Univ. Pisa); Unger (RUB)

 - Bellemin (EC RTD-05); Forsström (EC RTD-J.4); Tocheny (ISTC, Moscow)

\* Subject: Proposal of “Phase Diagrams for Multi-component Systems Containing Corium and Products of its Interaction with NPP Materials (CORPHAD)” -- ISTC Project # 1950.2

\* Documents: General description and summary (3pages) and Work Plan of ISTC project #1950 phase 2 (20 pages), Aleksandrov Research Institute of Technologies, Sosnovy Bor, 2002

\* Advice: **EU funding recommended (priority 2)**

\* Justification: The group strongly supports the execution of this project, mainly aimed at experimental studies to develop and further investigate phase diagrams of corium and reactor materials mixtures. It should contribute to optimise and complete thermodynamic databases for high temperature application and consequently to improve chemical corium behaviour models needed for severe reactor accident assessments.

Recommendations: The work plan of the project CORPHAD phase 2 and technical aspects of the test conduct and accuracy of measurements should be disccussed once more in detail at the next CEG-CM meeting.

\* Comments: - A project development grant was already given to this project.

- This project is linked to various current EU projects, i.e. EURSAFE, ENTHALPY and PLINIUS.

- Confirmed EU collaborators: FZK, IRSN, JRC-ITU, CEA and FANP.

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| Dissemination level : COPU: publicRE: restricted to EC and a group specified by the CEG-CM membersCO: confidential, only for EC, CEG-CM members and ISTC |

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October 2002 CEG-CM / A-04