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|  |  INTERNATIONALEUROPEAN COMMISSION SCIENCE ANDDIRECTORATE-GENERAL 'Research' TECHNOLOGY CENTER |   |

**CONTACT EXPERT GROUP on SEVERE ACCIDENT MANAGEMENT (CEG-SAM)**

*To:* R. Burmanjer (EC, DG-RTD / D.3) *Advice no.:* A-11

*Project code:* ISTC # 3592 *Date:* 28th Sept. 2006

*Signatures:* P.Hofmann (Secretary)

*Linked meeting:*  10th CEG-SAM meeting, Kurchatov City, Kazakhstan, September 5-8, 2006.

*Attending members:* Altstadt, Willschütz (FZR); Bottomley (JRC/ITU); Clement (IRSN); Ducros (CEA); Herranz (CIEMAT); Hozer (AEKI); Miassoedov, Stuckert, W. Tromm (FZK); Trambauer (GRS)

*Copies:*  CEG-SAM members; J. Sanders (EC, DG-RTD / D.3), S. Webster (EC, DG-RTD / J.2), L.Tocheny (ISTC, Moscow)

\* Subject: - Proposal in the area of "Corium Melt Interaction with Reactor Vessel Steel”,

ISTC Project # 3592

\* EU Collaborators: - AREVA NP, CEA, FORTUM Nuclear Services, FZK, FZR, IRSN, ITU.

\* Documents: - ISTC project proposal #3592. “Investigation of Corium Melt Interaction with NPP Reactor Vessel Steel; METCOR-P” (Version Sept. 2006). NITI, St. Petersburg.

\* Advice: - **EU funding recommended with priority 1.**

\* Justification: - This project proposal will last for 3 years for a total cost of 420 k€. The group proposes that the EU finances the proposal up to 420 k€ taking into account the possible Korean funding contribution.

- The group strongly supports the execution of this project aimed at examining specific situations of in-vessel retention that are of direct relevance to the current operational reactors. It will determine the influence of geometry and yield exact rates of corrosion for a LWR vessel steel. This will enable both improvement of existing data in this field and will enable code verification. This will also considerably help in reviewing the accident strategies in this field, as it is extremely difficult to obtain fully quantified data for such specific conditions.

* The collaborators are all very motivated to follow this project and will offer their advice and full support as they appreciate the added value that this research will have to their own programmes and how their contributions can also extend the use and importance of this work. The collaborators have also noted the high quality of the work from this institute in their earlier research. The valuable cross-fertilisation of ideas between this high-level research group in St. Petersburg and the leading European research institutes among the collaborators is an additional, mutual bonus in this project.

\* Recommendations: - All collaborators recommendations have been incorporated.

\* Comments: - This project will bring additional high-value research to the EC SARNET Network of Excellence (FP6) Corium topic.

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| Dissemination level : RE: restricted to EC, CEG-SAM members, ISTC and CIS beneficiaries |